HTC-D259/D359

SERVICE MANUAL

Canadian Model
HTC-D259
AEP Model
UK Model
E Model
Australian Model
HTC-D259/D359
PX Model
HTC-D359

Photo: HTC-D359

HTC-D259 is the compact disc deck in LBT-A27CDM / D259CD.
HTC-D359 is the compact disc deck in LBT-A37CDM / D359CD.

SPECIFICATIONS

Cassette deck

Recording system	4-track 2-channel stereo
Frequency response	DOLBY NR OFF With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (±3 dB) With Type I cassette (Sony HF-S) 40 Hz to 13 kHz (±3 dB)
Wow and flutter	0.1% (WRMS)

Compact disc player

Laser	Semiconducotr laser
Wavelength	780 – 790 nm
Frequency response	2 Hz to 20 kHz ± 0.5 dB
Signal-to-noise ratio	More than 93 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.008% (1 kHz)
Channel separation	More than 90 dB (1 kHz)

General

Mass	Approx. 6.9 kg
Dimensions	Approx. 355 × 225 × 385 mm (w/h/d, including projections)

Speaker systems (SS-D270)

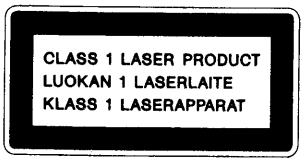
Speaker system	2-way
Mass	Approx. 6.3 kg, per speaker
Dimensions	Approx. 260 × 505 × 210 mm (w/h/d)

Design and specifications are subject to change without notice.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ᴅᴅ are trademarks of Dolby Laboratories Licensing Corporation.

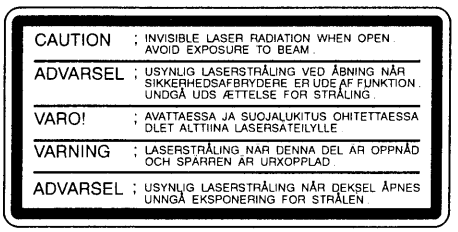
CD Section	Model Name Using Similar Mechanism		HCD-H150/H500
	Base Unit Name		BU-5BD3
DECK Section	Model Name Using Similar Mechanism		HCD-H170 / H170K/H700
	Tape Transport Mechanism Type	DECK A	TCM-190RA12CL
		DECK B	TCM-190RB22CL

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

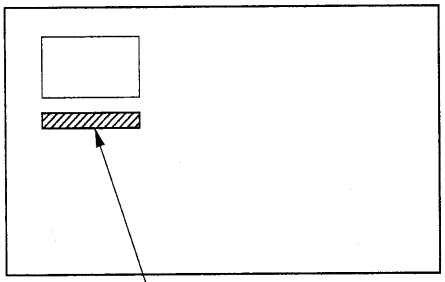

CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSATEILYLLE
VARNING ; LASERSTRÅLING NÄR DENNA DEL ÄR OPPNAD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

COMPACT DISC DECK

SONY®

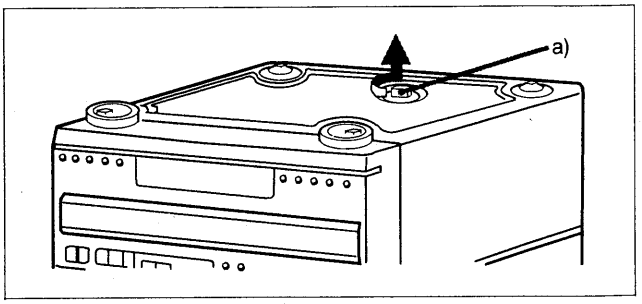
MODEL IDENTIFICATION

Back Panel



4-955-832-01: HTC-D259
4-955-832-11: HTC-D359

Note on the Transit key



The transit key (a)) on the bottom exterior of the CD player protects the optical system against shock during transportation.
Before operating the unit, be sure to remove the key by following the instructions on the label, and store it in a safe place.
When transporting the unit, put the key to its original position and lock it in place.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

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SAFETY-RELATED COMPONENT WARNING!!

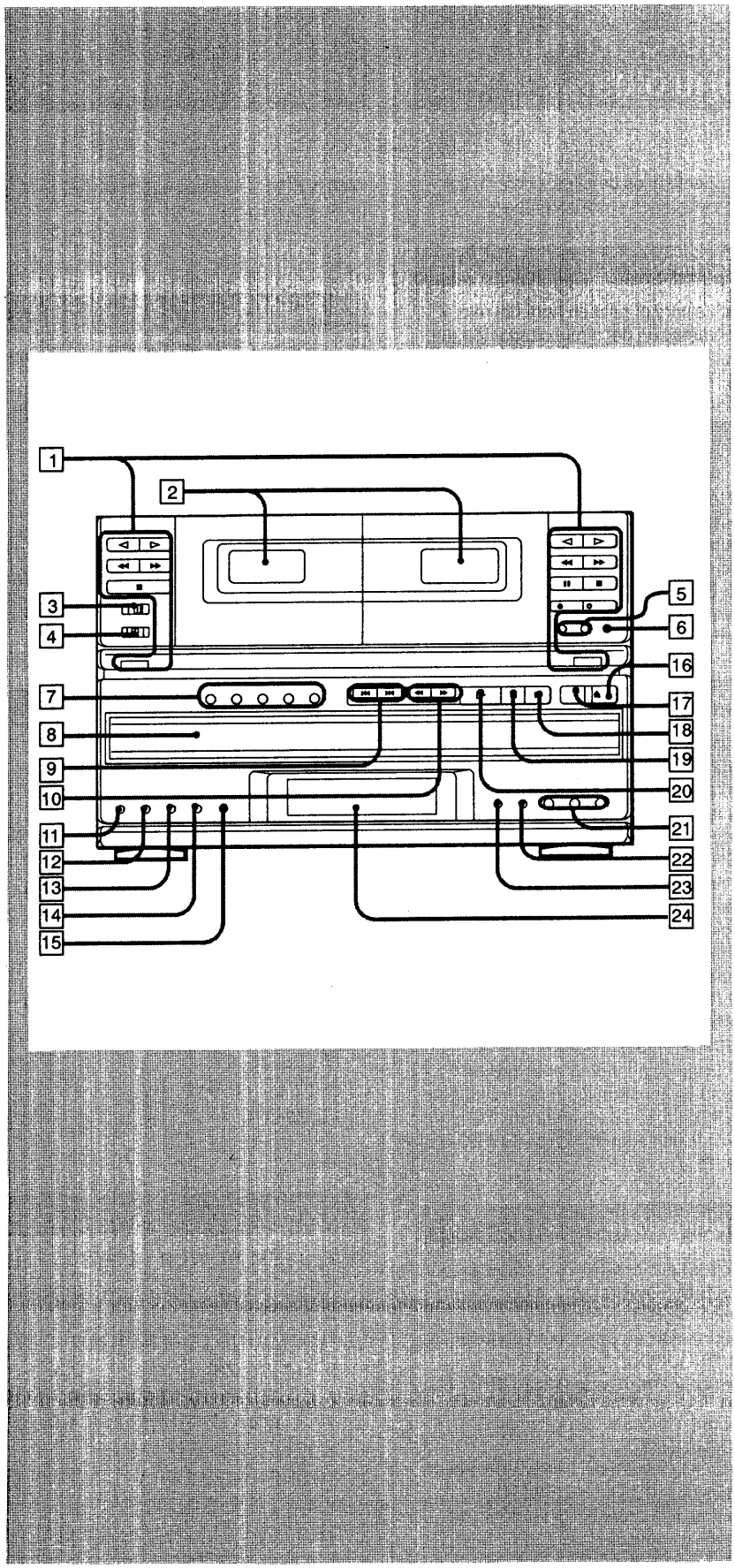
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

SECTION 1
GENERAL



Location of Controls

Cassette Deck

1 Tape operation buttons
- ◀◀ Leftward fast winding/AMS*
- ▶▶ Rightward fast winding/AMS*
- ▶ Forward play
- ◀ Reverse play
- ■ Stop
- ⏏ EJECT
- ❚❚ PAUSE (deck B only)
- O REC MUTE (record muting) (deck B only)
- ● REC (record) (deck B only)

2 Cassette holders
3 DOLBY NR (noise reduction) switch (32, 82)
4 DIRECTION MODE selector (28, 32, 38, 82)
5 DUBBING SPEED (HIGH/NORMAL) button (38, 40)
6 CD SYNCHRO button (82, 86) (HTC-D359)

Compact Disc Player

7 DISC 1 – 5 buttons (42, 46, 50, 52, 54)
8 Disc tray
9 ⏮/⏭ (AMS*) buttons (46, 52, 54, 88, 96)
10 ◀◀/▶▶ (manual search) buttons (48, 88, 96)
11 TIME button (44)
12 FADER button (94)
13 EDIT/TIME FADE button (88, 94)
14 CHECK (program check) button (54)
15 CLEAR (program clear) button (56)
16 ⏏ OPEN/CLOSE button (42)
17 DISC SKIP button (42, 46)
18 ■ (stop) button (42)
19 ❚❚ (pause) button (42)
20 ▶ (play) button (42)
21 PLAY MODE button
PROGRAM button (52, 86)
SHUFFLE button (50)
CONTINUE button (42)
22 MUSIC SCAN button (58)
23 REPEAT button (60)
24 Display window

* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2
ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

Precautions:

1. Clean the following parts with a denatured-alcoholmoistened swab;
   record/playback/erase head
   pinch roller rubber belts
   capstan idler
2. Demagnetize the record/playback head with a head demagnetizer.
   (Head demagnetizer do not approach for the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	35 to 60g · cm (0.49 to 0.83 oz · inch)
FWD Back tension	CQ-102C	2 to 6g·cm (0.03 to 0.08 oz·inch)
REV	CQ-102RC	35 to 60g · cm (0.49 to 0.83 oz · inch)
REV Back tension	CQ-102RC	2 to 6g·cm (0.03 to 0.08 oz·inch)
FF, REW	CQ-201B	70 to 110g · cm (0.98 to 1.52 oz · inch)

Chucking Arm Height Adjustment

This Adjustment should be performed after the electrical adjustment and on replacing adjusting screw, magnet, or chucking pulley.

Procedure :

1. Set disc (YEDS-18) to the optical pick-up block. (Fig. A)
2. Adjust the bracket (press pulley) to the center of the magnet with adjusting screw. (Fig. B)

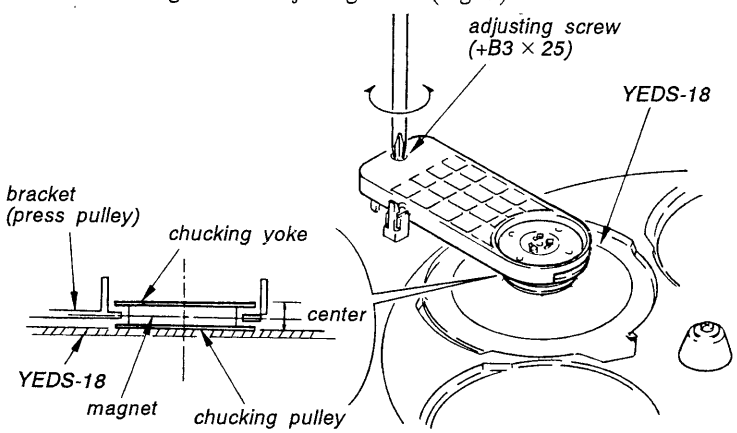


Fig. B

Fig. A

2-2. ELECTRICAL ADJUSTMENTS

0 dB=0.775 V (AF)

Precautions:

CASSETTE DECK SECTION

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.
  DOLBY NR switch : OFF
  TAPE : TYPE I

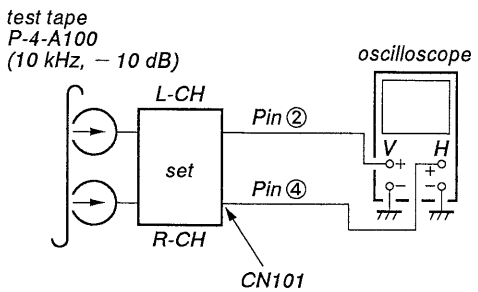
Type	Signal	Used for
P-4-A100	6.3kHz, −10dB	Azimath Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

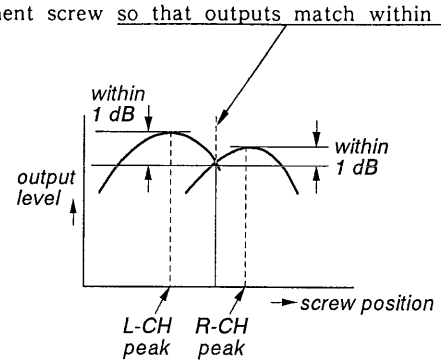
Note : Perform this adjustments for both decks.

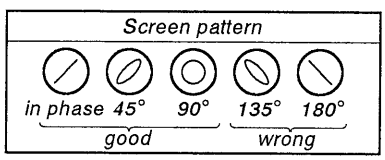
Procedure :

1. Mode : FWD playback



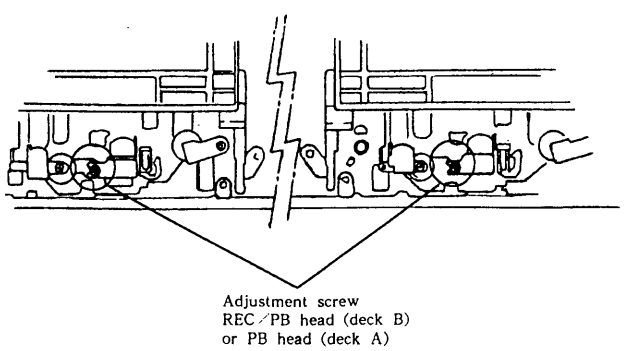
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





3. After the adjustments, apply suitable locking compound to the parts adjusted.

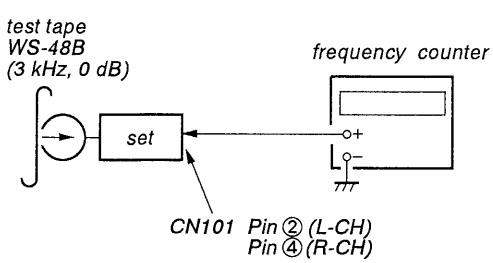
Adjustment Location :



Tape Speed Adjustment. DECK A DECK B

Procedure :

Mode : playback



- High speed adjustment (Must be first Adjustment B deck)
  1. Push HIGH speed button.
  2. Adjust RV71 so that the frequency counter reads 6,000±30Hz.

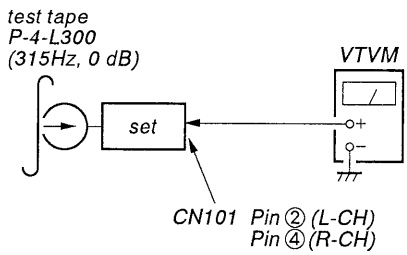
- NORMAL speed adjustment
  1. Push NORMAL speed button.
  2. Adjust RV72 so that the frequency counter reads 3,000±15Hz.

(See right for Adjusting Parts Location)

Frequency difference between deck A and deck B the beginning of the tape should be within 1%.

Playback Level Adjustment DECK A DECK B

Procedure :



Mode : FWD playback
DECK-A side RV11 (L-CH), RV21 (R-CH)
DECK-B side RV11 (L-CH), RV21 (R-CH)
so that the limits below are satisfied.

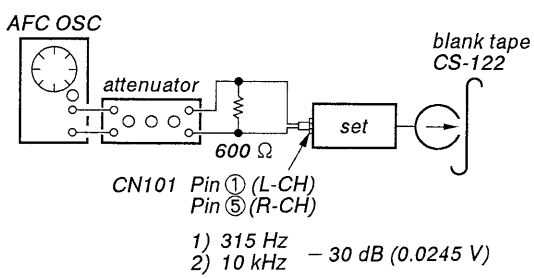
Adjustable limits :

CN101 level : −7.7 ± 0.5dB (0.48 − 0.67V)
level difference between the channels : within 1.0dB
(See right for Adjusting Parts Location)

Record BIAS Current Adjustment DECK B

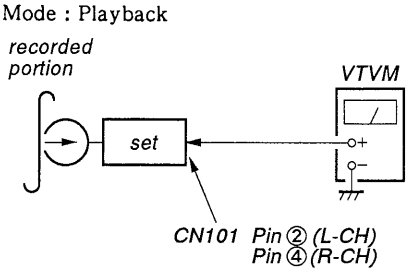
Procedure :

1. Mode : record



1) 315 Hz
2) 10 kHz — 30 dB (0.0245 V)

2. Mode : Playback



Playback the signal recorder in step 1.
Confirm that the 10kHz playback output is 0±0.5dB relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.
(See right for Adjusting Parts Location)

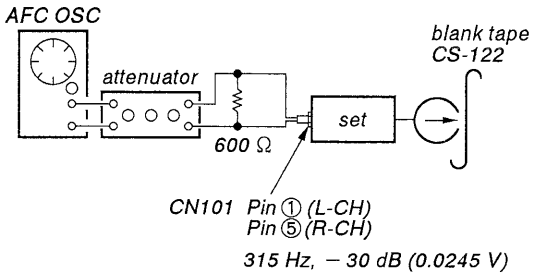
Record Level Adjustment DECK B

Setting :

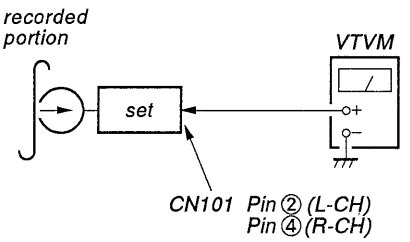
TAPE : TYPE I

Procedure :

1. Mode : record



2. Mode : playback

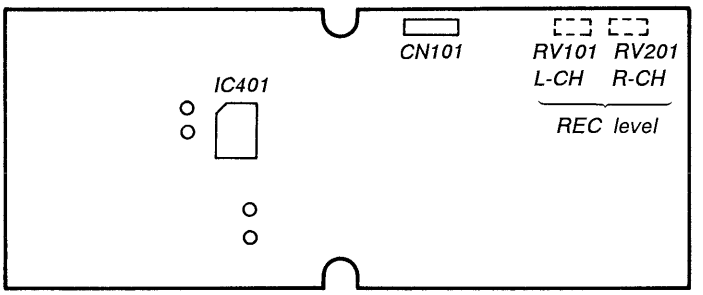


3. Playback the signal recorded in step 1.
   Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-3.

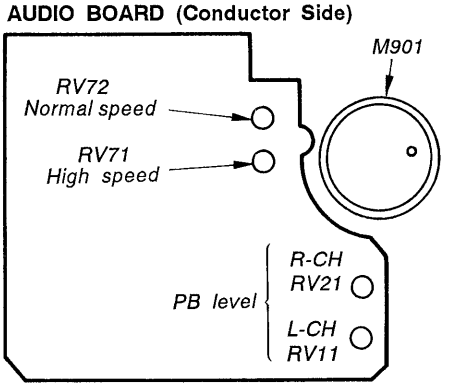
Adjustable : − 30.0 ± 0.5dB (0.0231 − 0.026V)
(See right for Adjusting Parts Location)

• **Adjusting Parts Location**

TC MAIN BOARD (Conductor Side)



AUDIO BOARD (Conductor Side)

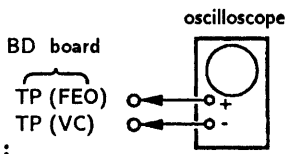


CD SECTION

Note :

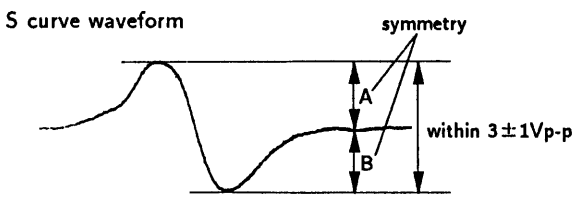
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

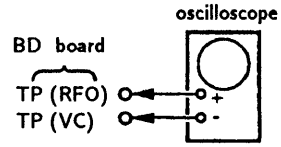


5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

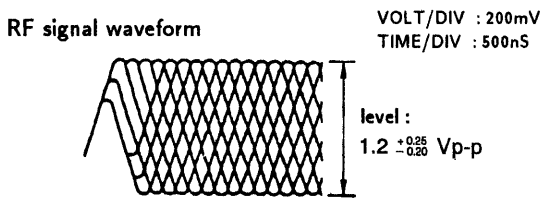


Procedure :

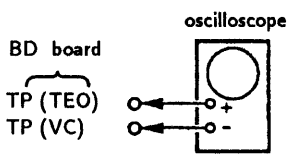
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

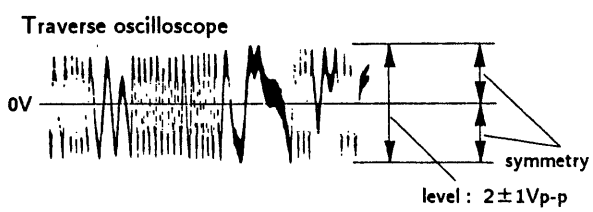


E-F Balance Check



Procedure :

1. Connect test point TP (TEST) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

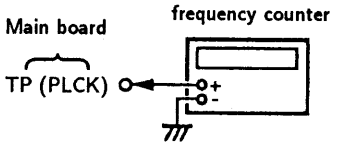


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PLCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4. 3218MHz.

Focus/Tracking Gain

This gain has a margin, so even if it is slightly off. There is no problem.

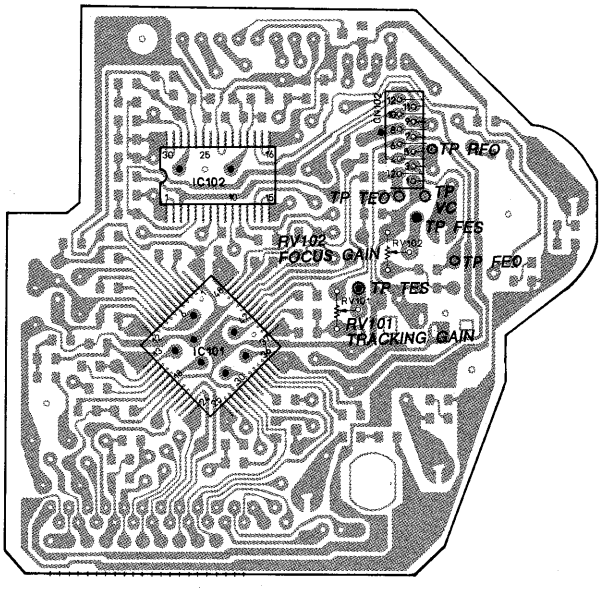
Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Locations :

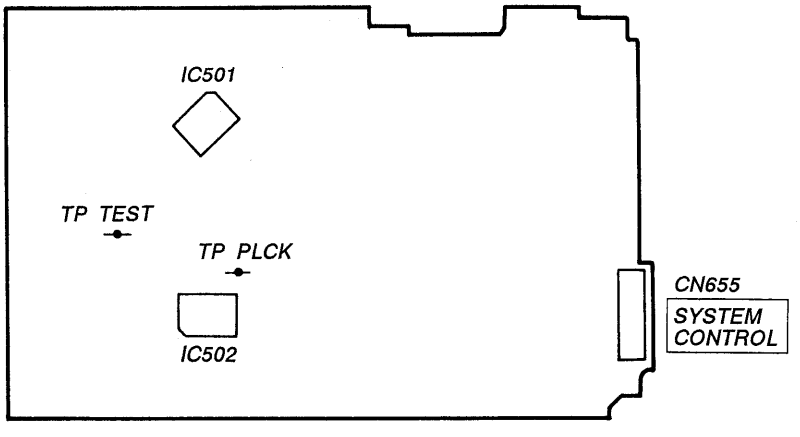
[BD board]

— conductor side —



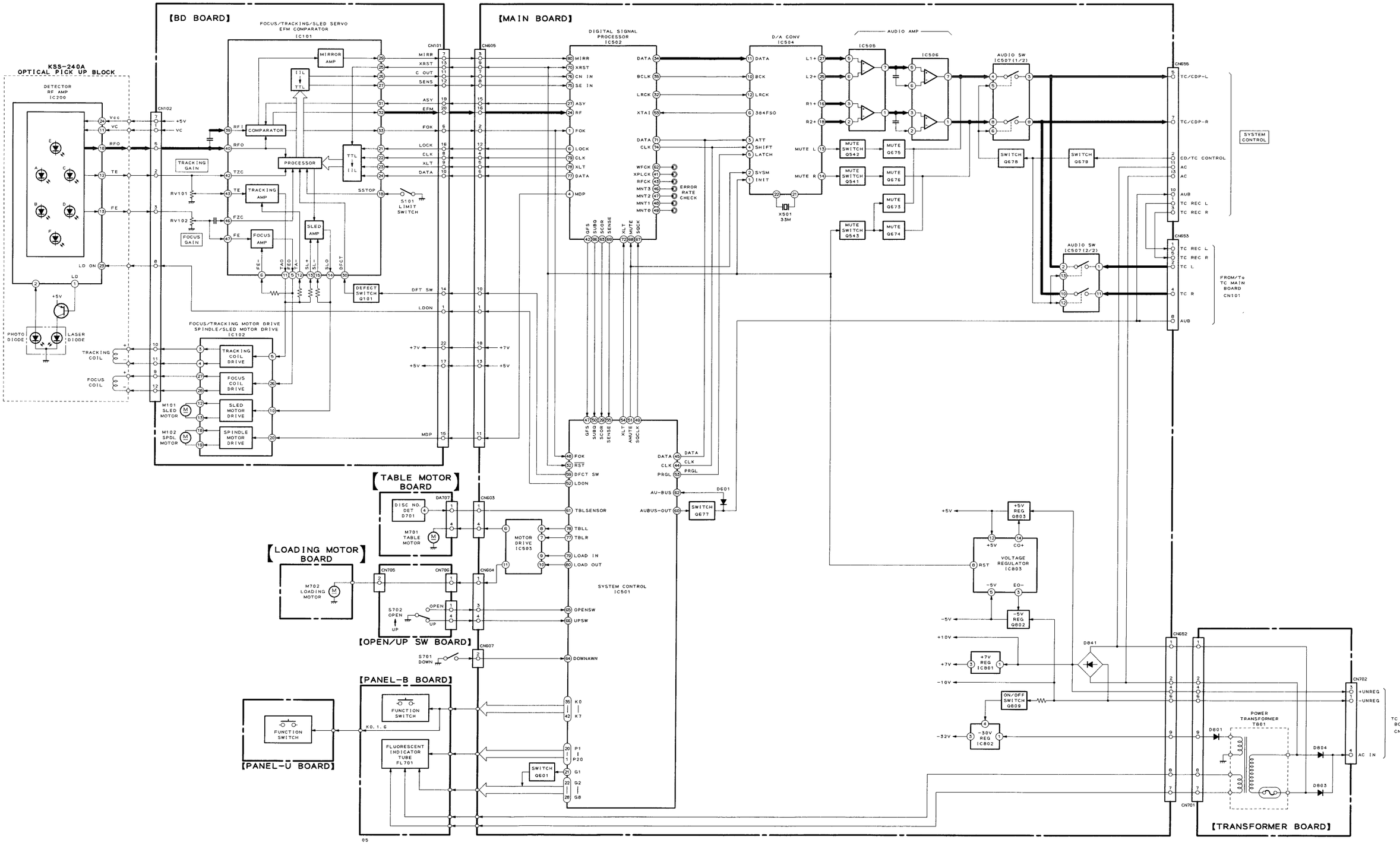
Adjustment Location ;

MAIN BOARD (Conductor Side)

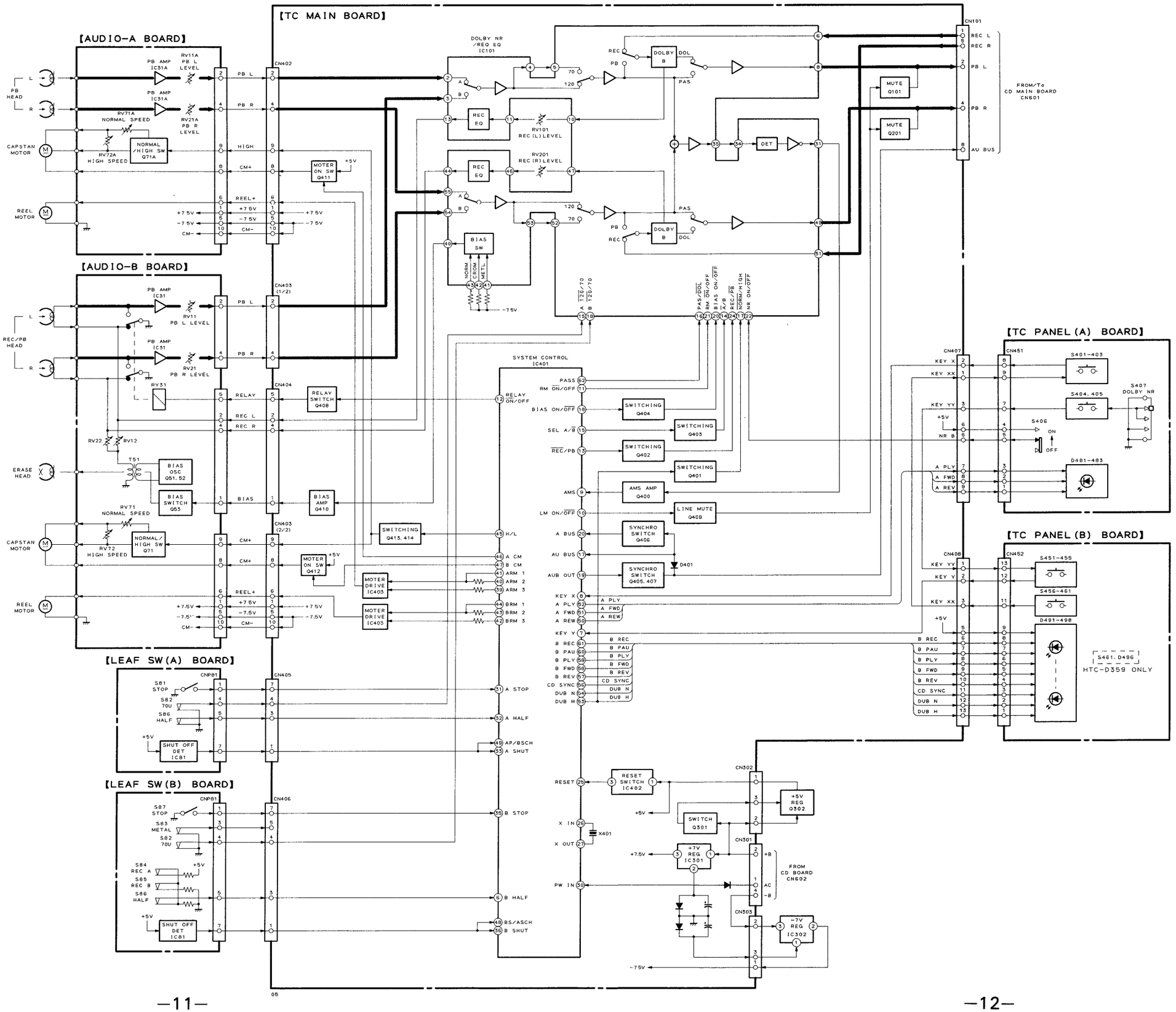


SECTION 3
DIAGRAMS

3-1. CD SECTION BLOCK DIAGRAM

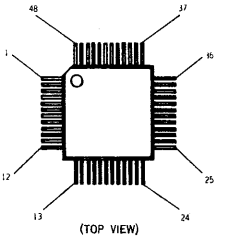


3-2. CASSETTE DECK SECTION BLOCK DIAGRAM

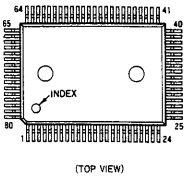


• Semiconductor Lead Layouts

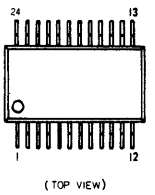
CXA1372AQ



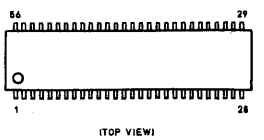
CXD2500BQ
CXP50120-024Q



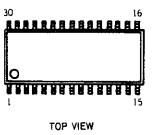
CXD2565M



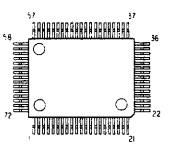
HA12171NT



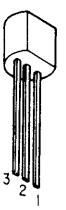
LA6532M



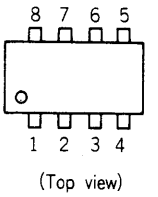
M50964-256FP



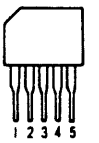
M51943BSL



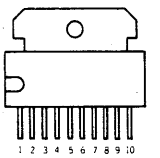
M5218AP



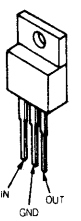
M5293L



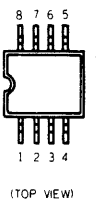
TA7272P



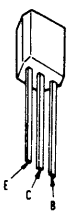
TA7807S



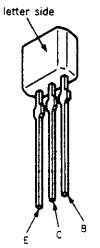
μPC4570G2



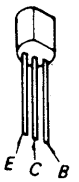
DTA114ES
DTA144ES
DTC144ES
2SC2603-EF



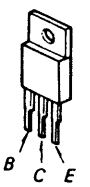
2SA1175-HFE
2SC3623A-LK



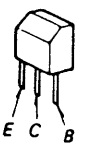
2SB1013-4



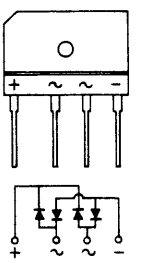
2SB1094-LK



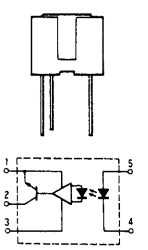
2SD774-34



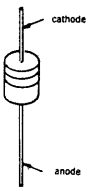
D2SB20



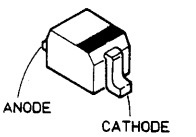
GP-1A521



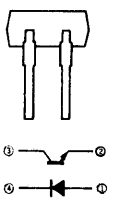
HZS7C2L
UZL-7L1
UZL-7L2
UZ-2.7BS
11ES2



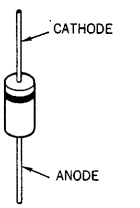
MA110



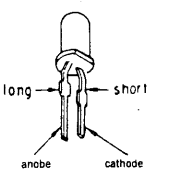
NJL5165K-B



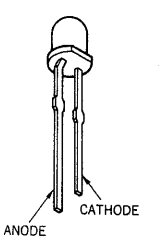
1N4148M

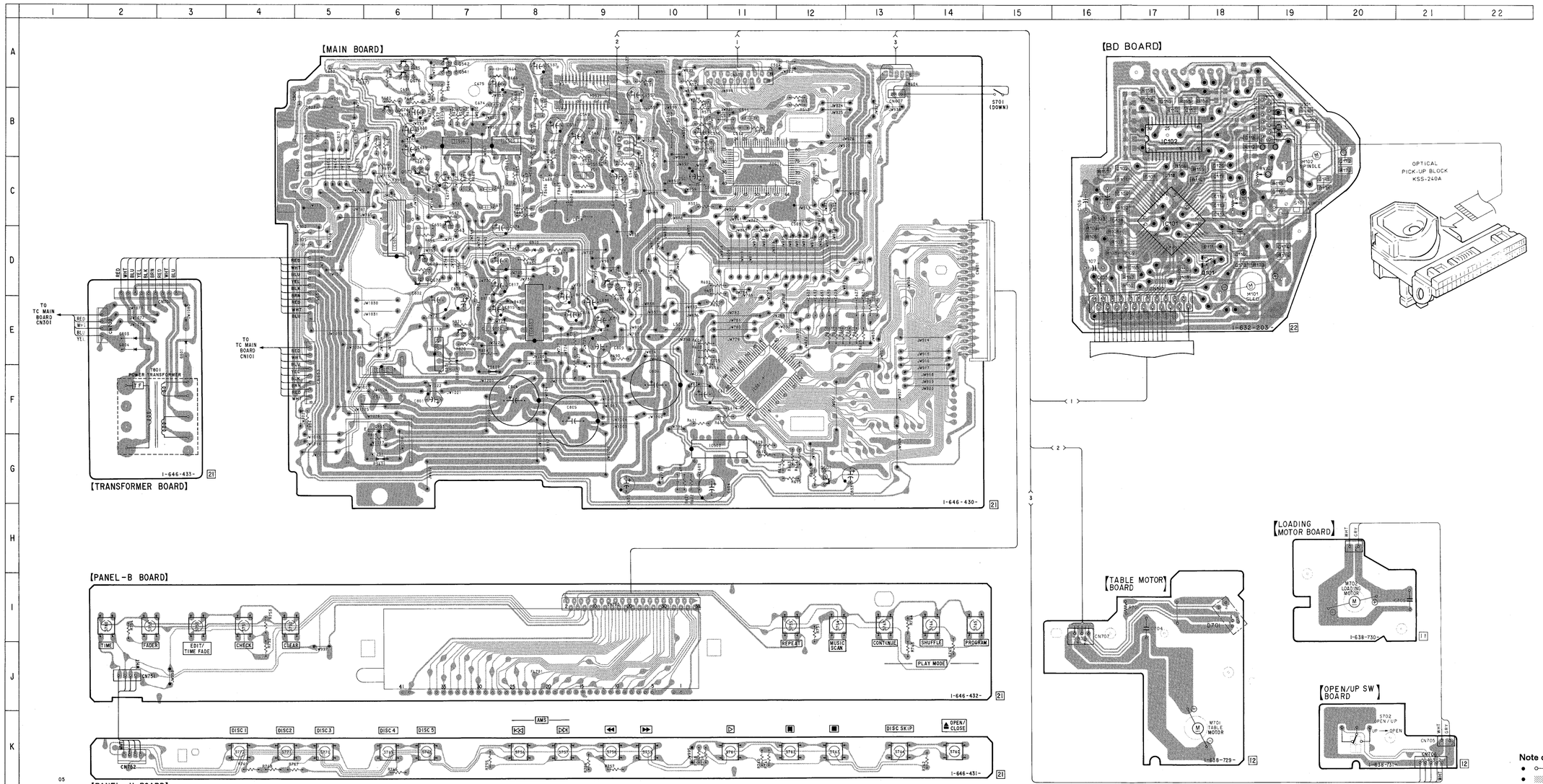


SEL2210S-CD
SEL2410E-TH10



SEL2810A



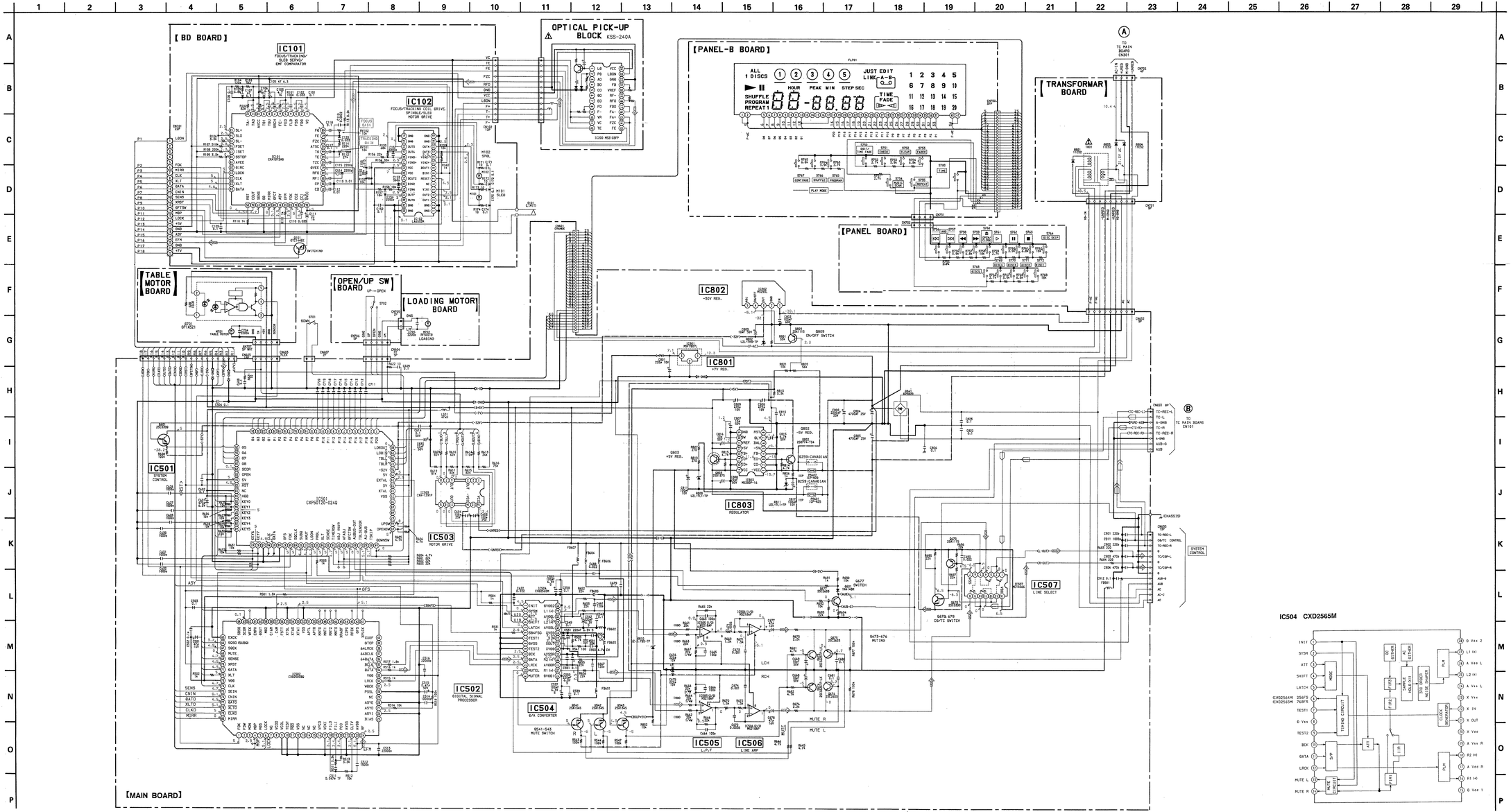


● **Semiconductor Location**

Ref. No.	Location
D601	D-9
D701	I-18
D801	E-3
D802	E-7
D803	E-2
D804	E-2
D808	E-9
D810	D-8
D811	D-7
D841	F-6
IC101	C-17
IC102	B-17
IC501	F-11
IC502	C-11
IC503	G-11
IC504	B-9
IC505	B-8
IC506	B-7
IC507	D-6
IC801	F-6
IC802	E-7
IC803	E-8

Note on Printed Wiring Board:

- ●——○ : parts extracted from the component side.
- ● ▨ : Pattern from the side which enables seeing.
- ○ ▨ : Pattern of the rear side.



Note on Schematic Diagram:

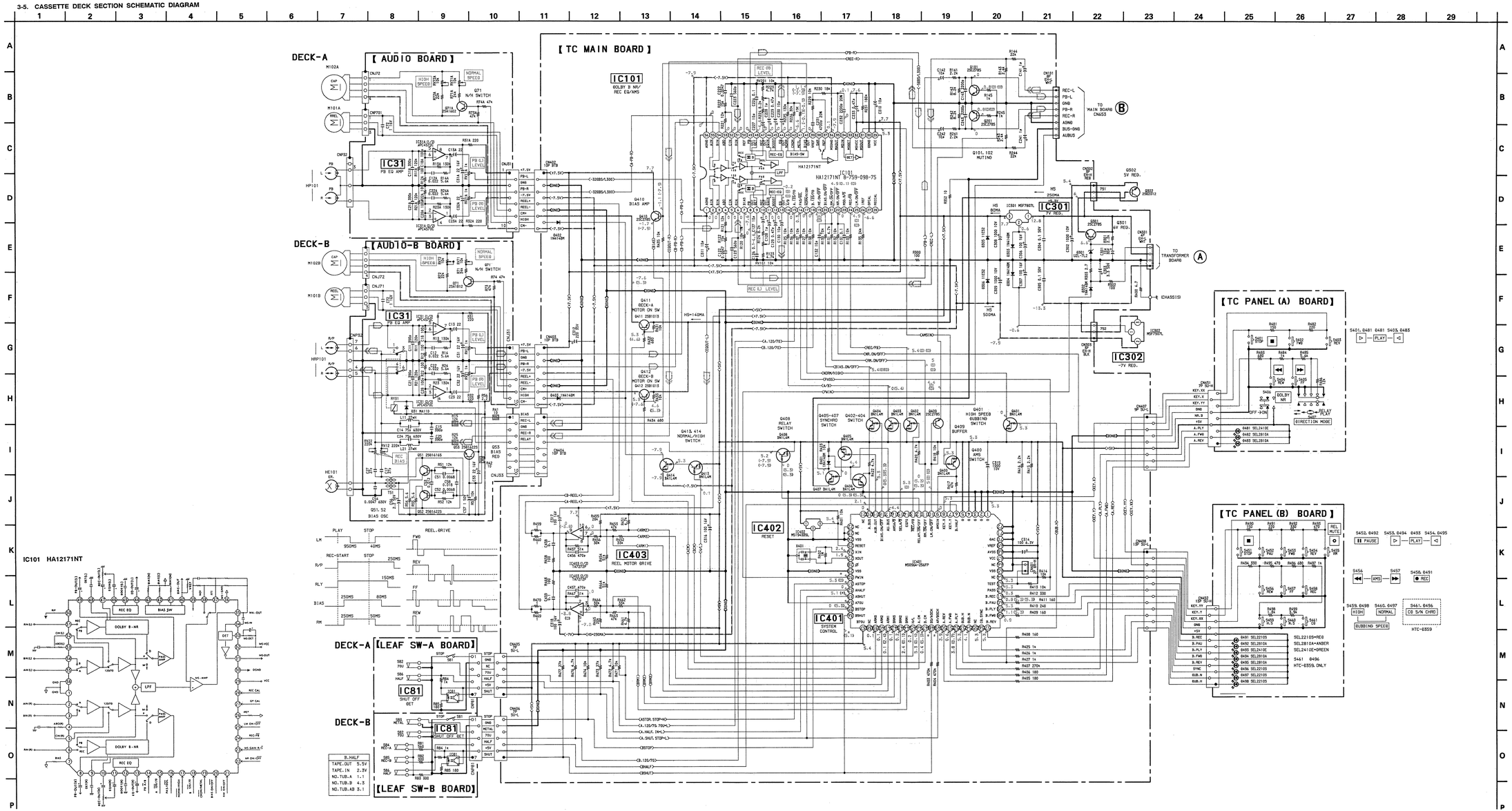
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ⊕ ═══ : B + Line.
- ⊖ ═══ : B − Line.
- ⊘ ┌──┐ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark :CD PLAY (COMMON)
  ( ) :DECK A PB
  ≪ ≫ :DECK B PB
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : CD
  ⇨ : PB (DECK B)
  ⇨ : REC (DECK B)

IC504 CXD2565M

3-5. CASSETTE DECK SECTION SCHEMATIC DIAGRAM



Note on Schematic Diagram:

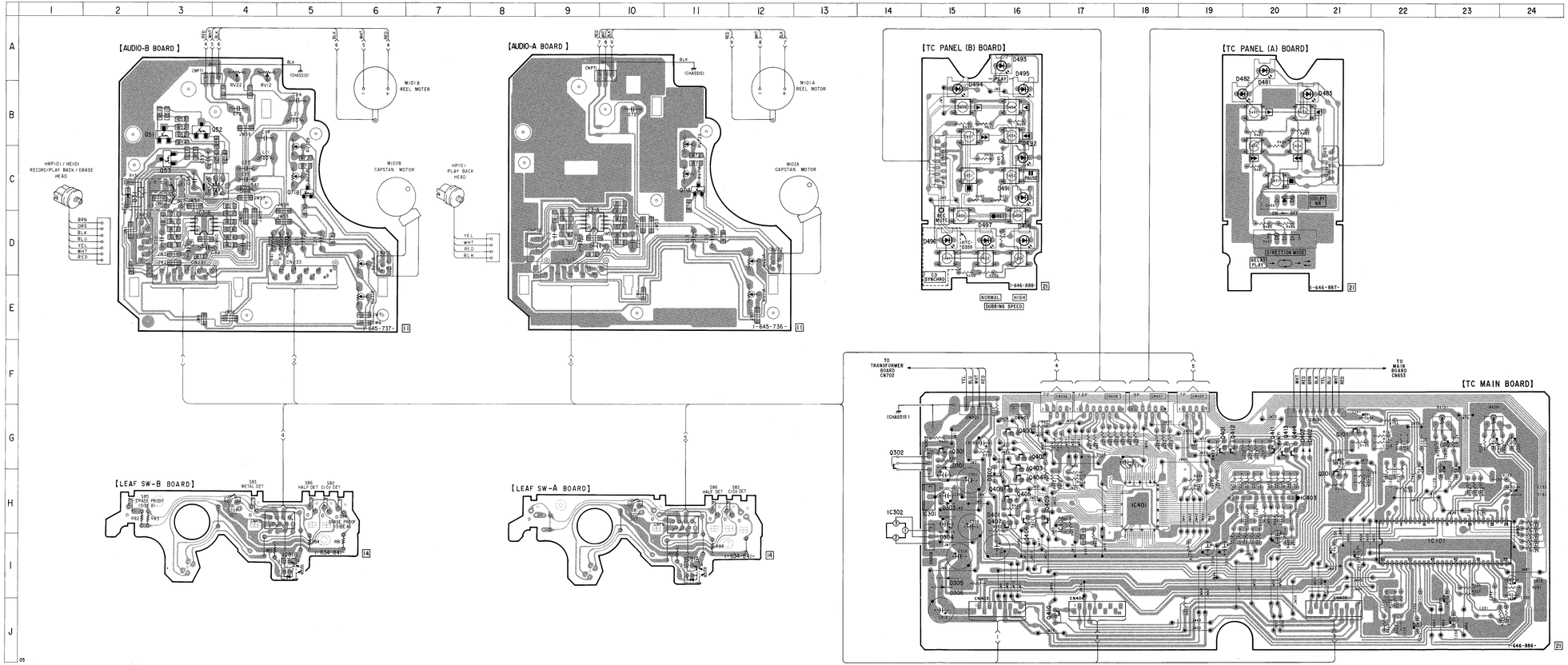
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ⎓ : B + Line.
- ⎓ : B − Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark :REC (COMMON)
  ( ) :DECK A PB
  ≪ ≫ :DECK B PB
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : CD
  ▷ : PB (DECK B)
  ▷ : REC (DECK B)

3-6. CASSETTE DECK SECTION PRINTED WIRING BOARDS

• See page 13 for Semiconductor Lead Layouts.



• **Semiconductor Location**

Ref. No.	Location
D31	C-2
D301	G-15
D302	H-16
D303	H-16
D304	H-15
D305	I-15
D306	I-15
D401	H-16
D402	G-21
D403	G-20
D481	A-20
D482	B-19
D483	B-21
D491	C-16
D492	C-16
D493	A-16
D494	B-15
D495	B-16
D496	D-15
D497	D-16
D498	D-16
IC31A	D-9
IC31B	D-3
IC101	I-22
IC301	H-15
IC302	H-14
IC401	H-18
IC402	H-17
IC403	H-20
Q51	B-3
Q52	B-3
Q53	C-3
Q71A	C-11
Q71B	C-5
Q101	G-21
Q201	H-21
Q301	G-15
Q302	G-14
Q400	G-16
Q401	G-19
Q402	G-16
Q403	G-16
Q404	H-16
Q405	H-16
Q406	H-16
Q407	H-16
Q408	H-16
Q409	H-16
Q410	J-17
Q411	G-20
Q412	G-19
Q413	G-20
Q414	G-20

Note on Printed Wiring Board:

• ○——— : parts extracted from the component side.

SECTION 4
EXPLODED VIEWS

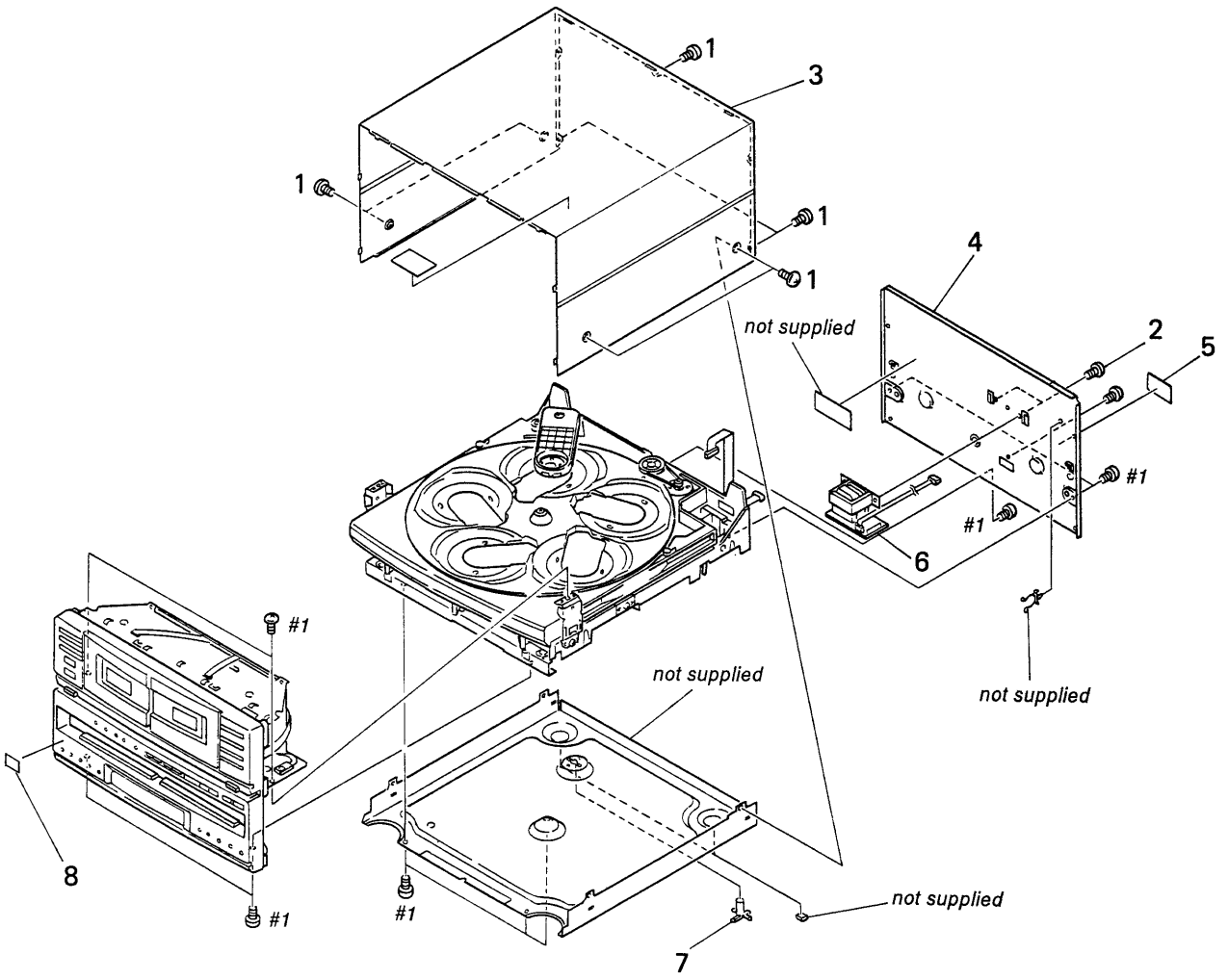
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.
- Abbreviations
  AUS: Australian Model
  IT: Italian Model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

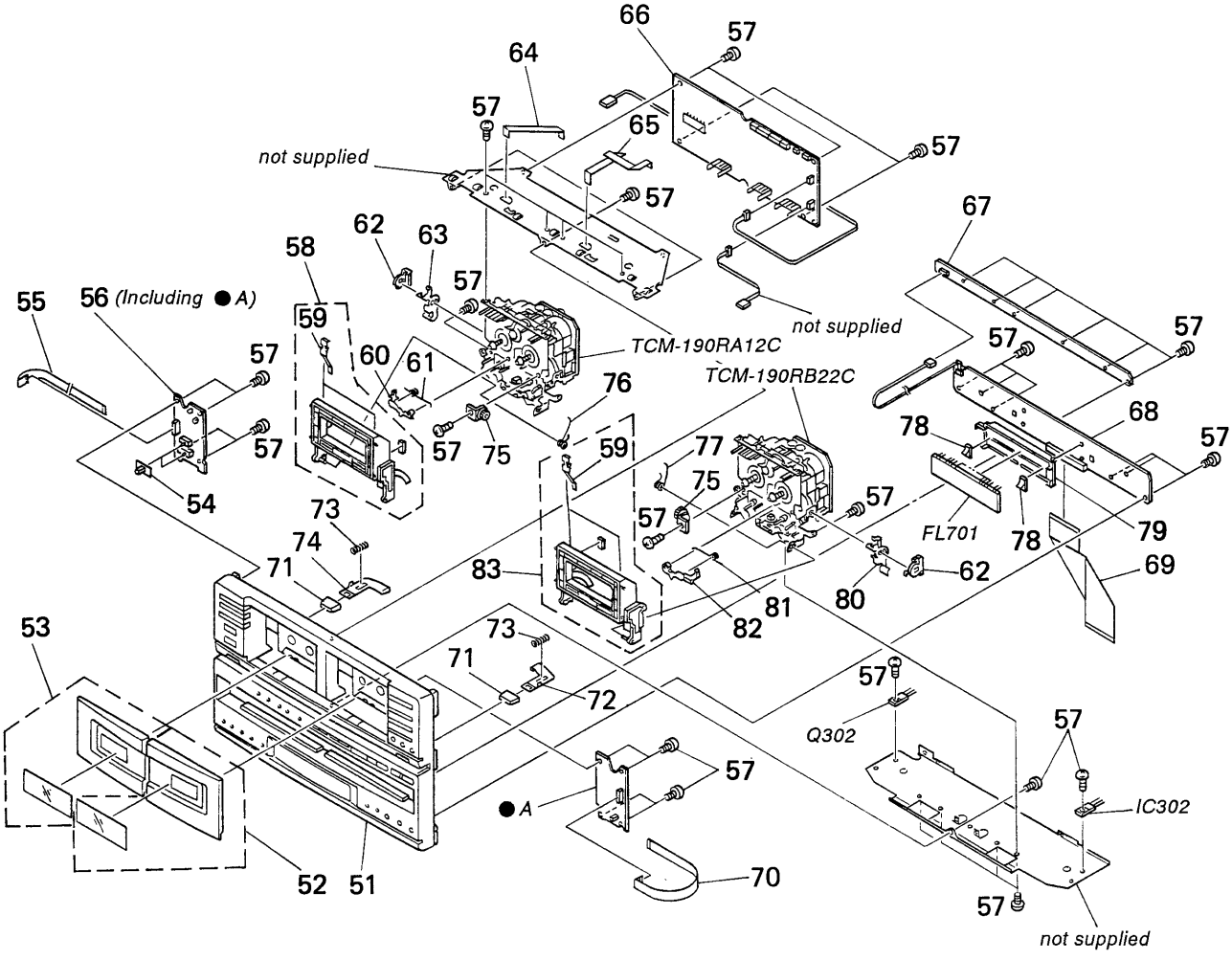
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

(1) CASE SECTION



Ref. No.	Part No.	Description	Remark
1	3-363-099-01	SCREW (CASE 3 TP2) (D359)	
1	3-704-366-01	SCREW (CASE) (M3X8) (D259)	
2	3-704-515-31	SCREW (BV/RING)	
* 3	4-955-795-31	CASE	
* 4	4-955-832-01	PANEL, BACK (D259)	
* 4	4-955-832-11	PANEL, BACK (D359)	
* 5	4-941-548-01	LABEL, CLASS 1 (D259:AEP, UK, E, IT, AUS, D359)	
* 6	1-646-433-21	TRANSFORMER BOARD	
7	4-937-945-01	PLATE (TRANSPORT), LOCK	
* 8	3-703-713-41	STICKER, SONY SYMBOL (10) (D359)	

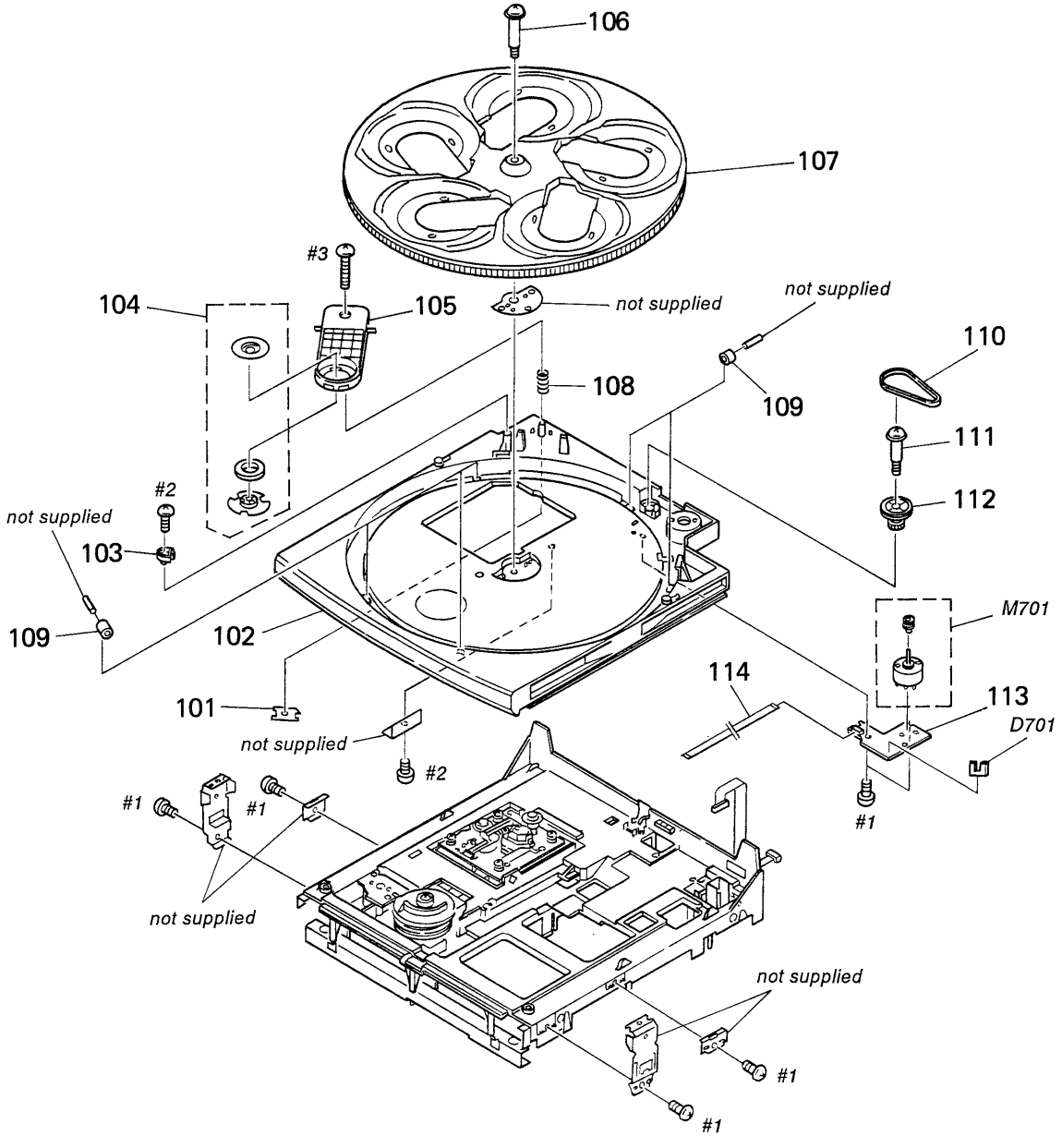
(2) FRONT PANEL ASSEMBLY SECTION



Ref. No.	Part No.	Description	Remark
51	X-4943-306-1	PANEL ASSY, FRONT (D259)	
51	X-4943-307-1	PANEL ASSY, FRONT (D359)	
52	X-4943-311-1	LID (B) ASSY, CASSETTE	
53	X-4943-310-1	LID (A) ASSY, CASSETTE	
54	4-948-273-01	KNOB, SLIDE	
55	1-751-209-11	WIRE, FLAT TYPE (9 CORE) (D259)	
* 56	A-4357-003-A	SW BOARD, COMPLETE (D259)	
* 56	A-4357-196-A	SW BOARD, COMPLETE (D359)	
57	4-951-620-01	SCREW (2.6X8), +BVTP	
58	X-3340-194-1	HOLDER (L) ASSY, CASSETTE	
59	3-308-823-11	SPRING	
60	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
61	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
62	3-354-957-01	JOINT (LOCK LEVER)	
* 63	3-354-953-01	LEVER (LOCK LEVER L)	
64	1-590-574-11	WIRE, FLAT TYPE (7 CORE)	
65	1-590-485-11	WIRE, FLAT TYPE (7 CORE)	
* 66	A-4356-892-A	TC MAIN BOARD, COMPLETE	
* 67	1-646-431-21	PANEL-U BOARD	
* 68	1-646-432-21	PANEL-B BOARD	

Ref. No.	Part No.	Description	Remark
69	1-751-055-31	WIRE, FLAT TYPE (37 CORE) (D259)	
70	1-690-589-31	WIRE, FLAT TYPE (13 CORE) (D359)	
70	1-751-210-11	WIRE, FLAT TYPE (13 CORE) (D259)	
71	4-935-355-41	BUTTON (EJECT)	
* 72	4-955-821-11	LEVER (R), EJECT	
73	3-500-131-00	SPRING, COMPRESSION	
* 74	4-955-820-11	LEVER (L), EJECT	
75	3-354-963-01	DAMPER	
76	3-354-959-01	SPRING (LOADING L), TORSION	
77	3-354-960-01	SPRING (LOADING R), TORSION	
* 78	4-949-935-31	CUSHION (FL)	
* 79	4-955-792-11	HOLDER (5M), FL TUBE	
* 80	3-354-954-01	LEVER (LOCK LEVER R)	
81	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
82	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
83	X-3340-195-1	HOLDER (R) ASSY, CASSETTE	
FL701	1-519-721-31	INDICATOR TUBE, FLUORESCENT	
IC302	8-759-604-95	IC M5F79M07L	
Q302	8-729-209-15	TRANSISTOR 2SD2012	

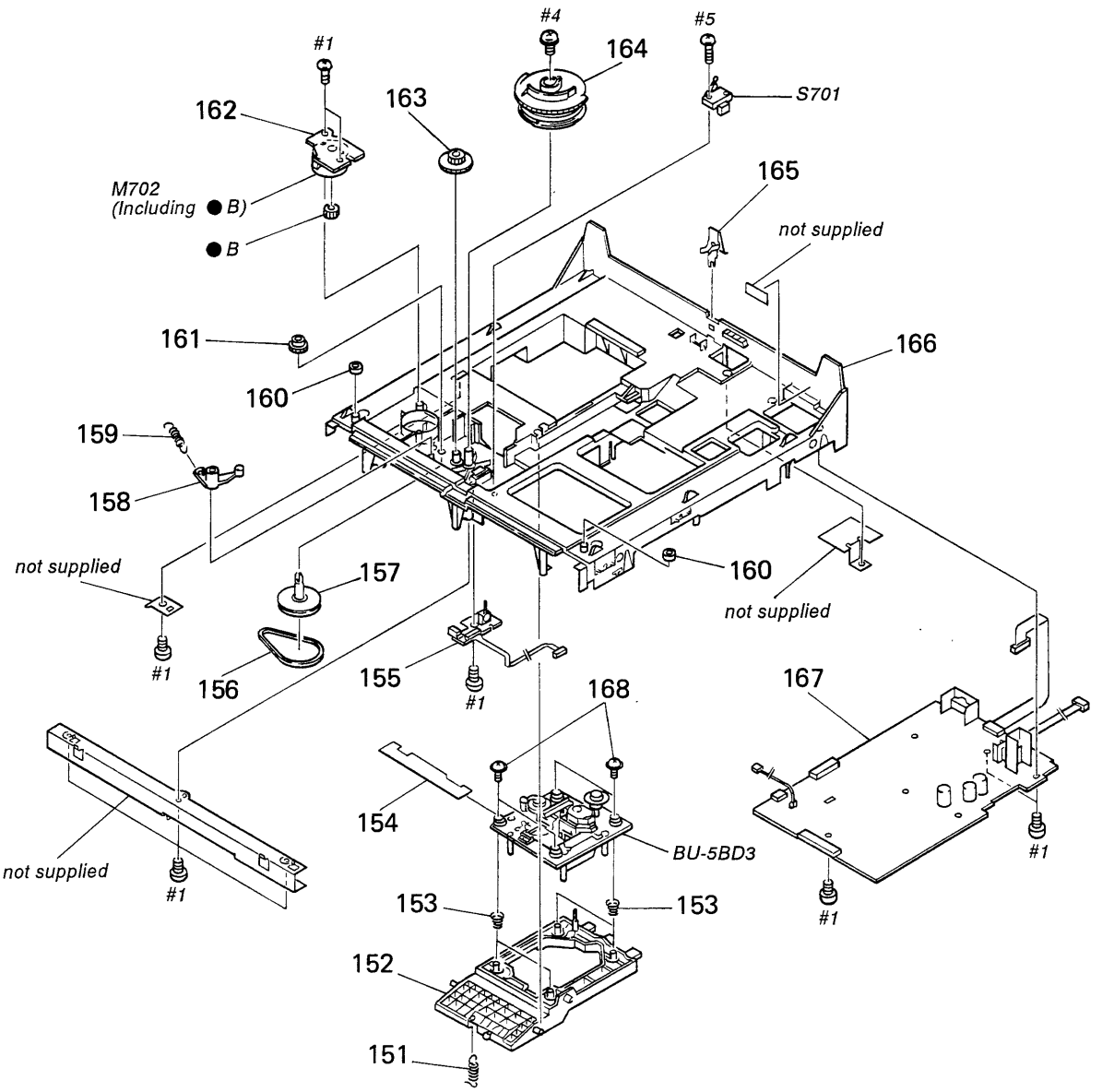
(3) TURNTABLE ASSEMBLY SECTION



Ref. No.	Part No.	Description	Remark
* 101	4-926-388-01	BRACKET (ADJUSTMENT)	
102	4-955-787-11	TABLE, DISK	
* 103	4-949-226-11	PLATE, LOCK	
* 104	1-452-538-11	MAGNET	
* 105	4-930-506-02	BRACKET (PRESS PULLEY)	
106	4-926-384-01	SCREW, STEP	
* 107	4-926-383-01	TABLE (B), DISK	
108	4-926-395-01	SPRING, COMPRESSION	

Ref. No.	Part No.	Description	Remark
109	X-4924-457-1	ROLLER ASSY	
110	4-926-399-01	BELT	
111	4-923-597-01	SCREW, STEP	
112	4-934-380-01	PULLEY (R)	
* 113	1-638-729-11	TABLE MOTOR BOARD	
114	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
D701	8-719-970-19	DIODE GP-1A521	
M701	A-4604-585-A	MOTOR ASSY, ROTARY	

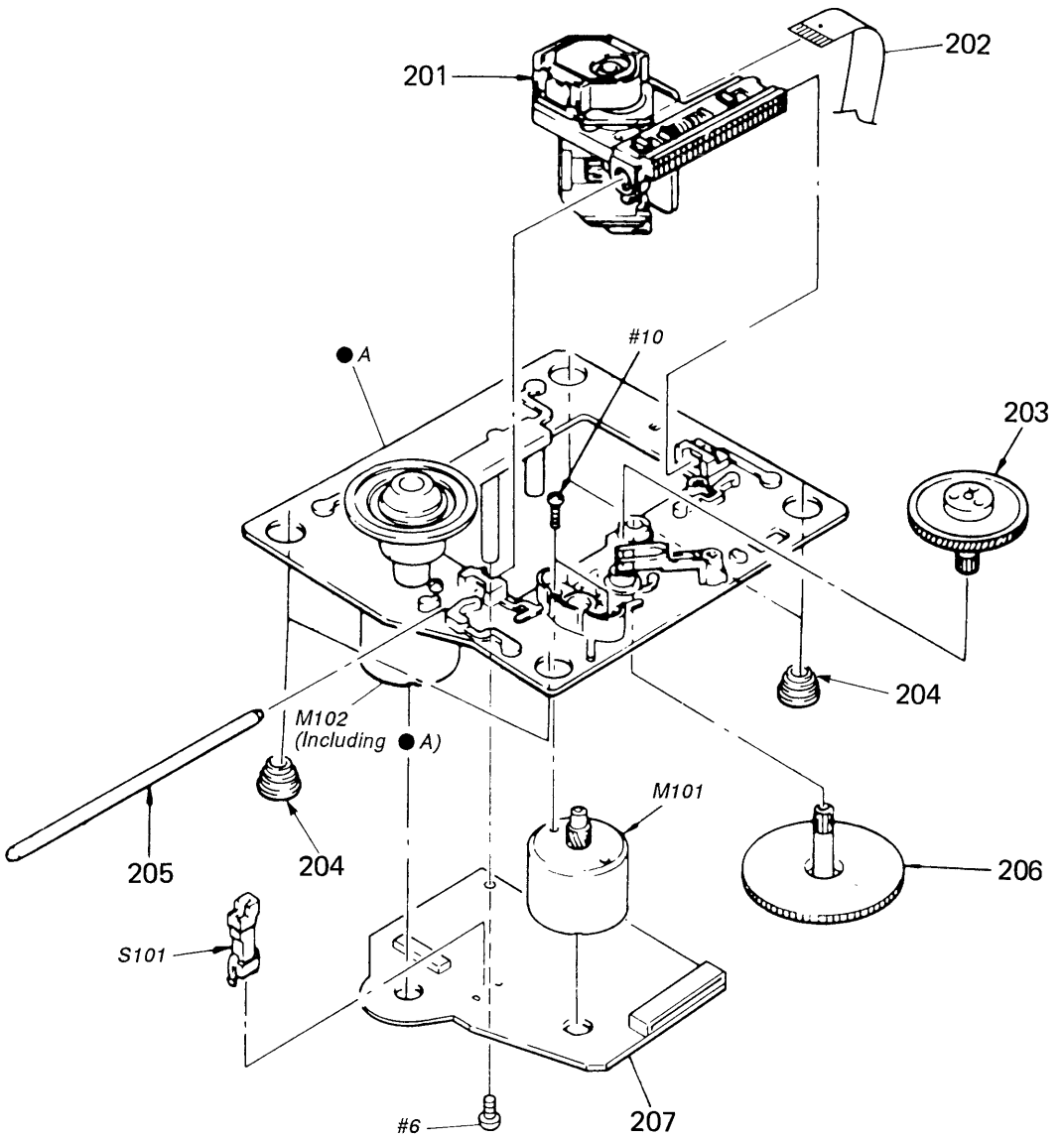
(4) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
151	4-937-911-01	SPRING, TENSION	
* 152	4-934-373-01	BRACKET (BU)	
153	4-949-385-01	SPRING (D), COIL	
154	1-537-476-11	JUMPER, FILM (WITH TERMINAL)	
* 155	1-638-731-11	OPEN/UP SW BOARD	
156	4-944-490-01	BELT (TIMING)	
157	X-4941-529-1	PULLEY ASSY	
158	4-917-519-01	LEVER, SET	
159	4-924-412-01	SPRING (B), TENSION	
* 160	4-951-619-01	CUSHION (A)	
161	4-934-375-01	GEAR (LOADING B)	

Ref. No.	Part No.	Description	Remark
* 162	1-638-730-11	LOADING MOTOR BOARD	
163	4-934-381-01	GEAR (LOADING C)	
164	4-934-391-01	GEAR (LOADING A)	
* 165	4-943-996-01	SPRING, LEAF	
* 166	4-943-997-01	CHASSIS	
* 167	A-4356-887-A	MAIN BOARD, COMPLETE (EXCEPT D259:Canadian)	
* 167	A-4360-507-A	MAIN BOARD, COMPLETE (D259:Canadian)	
168	4-933-134-01	SCREW (+PTPWH M2.6X6)	
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR)	
M702	A-4604-834-A	MOTOR ASSY, LOADING	

(5) OPTICAL PICK-UP BLOCK ASSEMBLY (BU-5BD3)

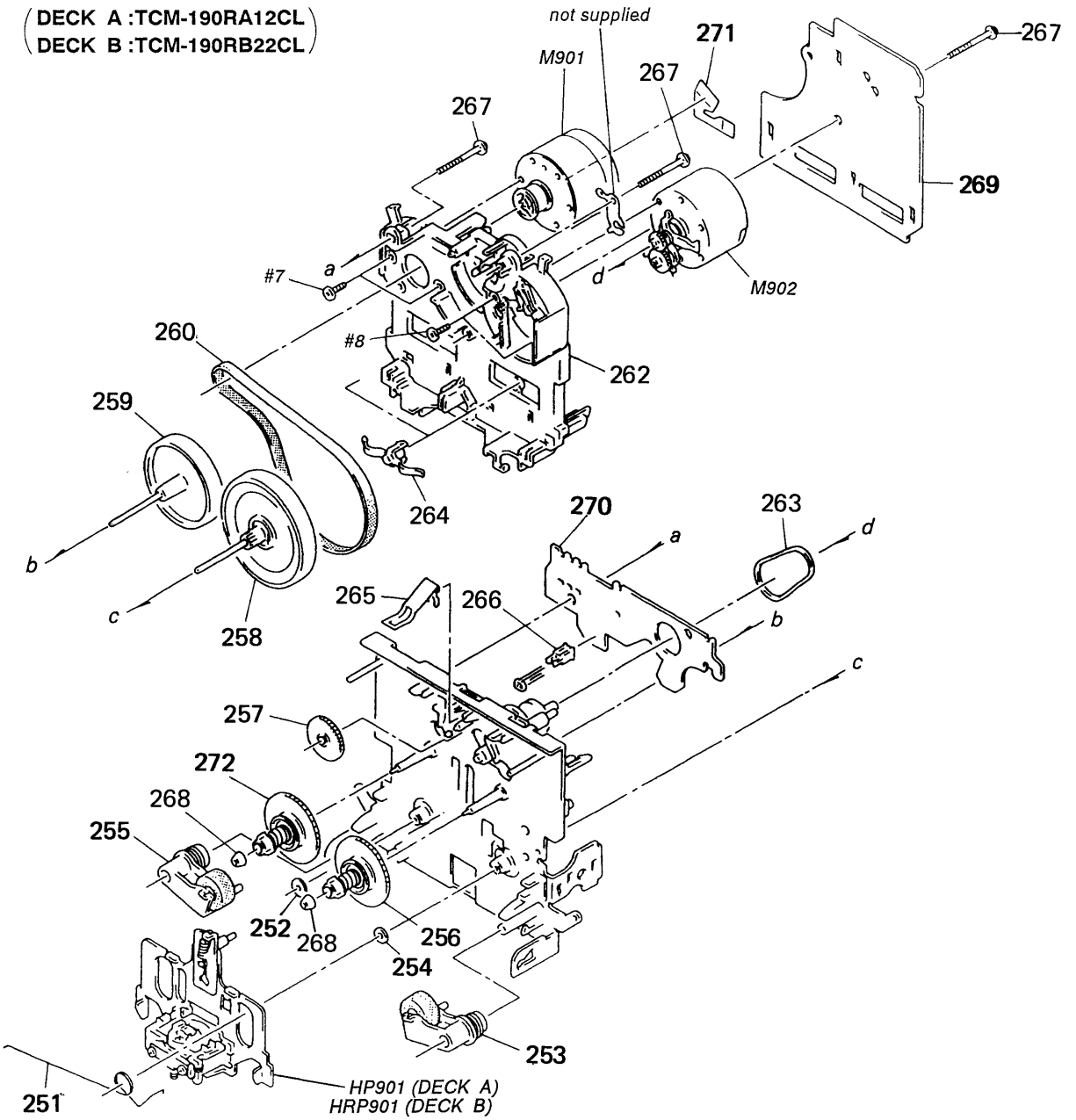


Ref. No.	Part No.	Description	Remark
⚠201	8-848-144-11	DEVICE, OPTICAL KSS-240A	
202	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
203	4-917-567-01	GEAR (M)	
204	4-933-126-01	INSULATOR (A)	
205	4-917-565-01	SHAFT, SLED	
206	4-917-564-01	GEAR (P), FLATNESS	
* 207	A-4617-371-A	BD BOARD, COMPLETE	
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	
M101	X-4917-504-1	MOTOR ASSY (SLED)	
M102	X-4917-523-3	BASE (OUTSERT) ASSY (SPINDLE MOTOR)	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(6) MECHANISM SECTION-1

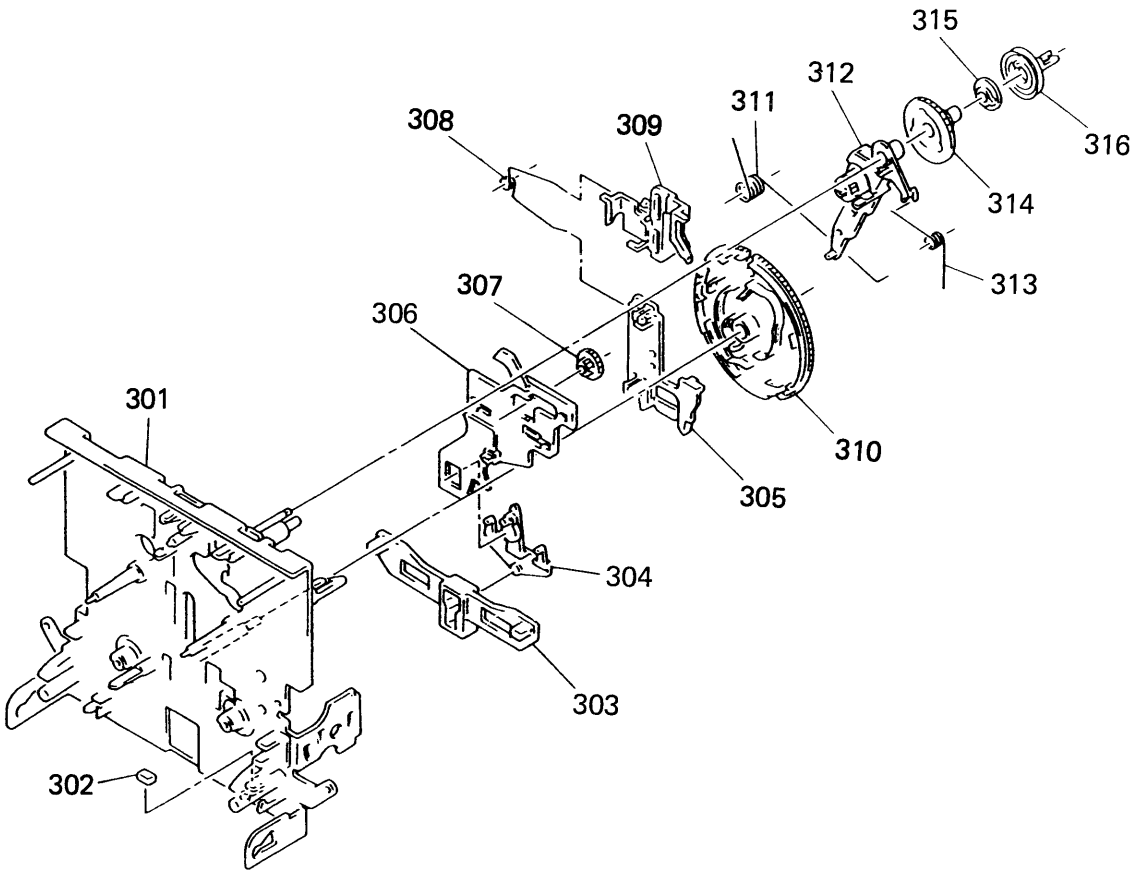
(DECK A :TCM-190RA12CL)
(DECK B :TCM-190RB22CL)



Ref. No.	Part No.	Description	Remark
251	3-359-455-01	SPRING, TORSION	
252	3-356-714-01	WASHER	
253	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	
254	3-356-713-01	WASHER	
255	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	
256	X-3359-404-1	TABLE ASSY, REEL	
257	3-359-424-01	GEAR (REV GEAR)	
258	X-3359-406-1	FLYWHEEL (FWD) ASSY	
259	X-3359-410-1	FLYWHEEL (REV) ASSY	
260	3-359-417-01	BELT (FLAT), CAPSTAN	
* 262	3-359-436-01	BASE (THRUST RETAINER), FITTING	
263	3-359-466-01	BELT (FR), SQUARE	
264	3-575-321-00	RETAINER, THRUST, CAPSTAN	

Ref. No.	Part No.	Description	Remark
265	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	
266	3-343-419-01	HOLDER (S SENSOR A)	
267	3-359-414-01	SCREW (+PTPWH 2X23)	
268	3-362-308-01	CAP (REEL)	
* 269	A-2006-609-A	AUDIO BOARD, COMPLETE (DECK A)	
* 269	A-2006-610-A	AUDIO BOARD, COMPLETE (DECK B)	
* 270	1-634-841-14	SW-A BOARD	
271	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
272	X-3362-078-1	TABLE ASSY (B), REEL	
HP901	A-2003-838-A	DECK ASSY, HEAD (DECK A)	
HRPE901	A-2004-190-A	DECK ASSY, HEAD (DECK B)	
M901	X-3359-417-1	MOTOR ASSY (CAPSTAN)	
M902	X-3363-501-1	MOTOR ASSY (REEL)	

(7) MECHANISM SECTION-2
(DECK A :TCM-190RA12CL
DECK B :TCM-190RB22CL)



Ref. No.	Part No.	Description	Remark
301	X-3359-415-1	CHASSIS ASSY, MECHANICAL	
302	3-359-469-01	SPACER	
* 303	3-359-425-01	SLIDER (REVERSE SLIDER)	
304	3-359-426-01	LEVER (REVERSE LEVER)	
* 305	3-359-427-01	SLIDER (LEVERSE SLIDER)	
* 306	3-359-415-01	SLIDER (TRIGGER SLIDER)	
307	3-359-448-01	GEAR (TRIGGER)	
308	3-359-454-01	SPRING, TORSION	

Ref. No.	Part No.	Description	Remark
309	3-359-429-01	SLIDER (BRAKE PLATE)	
310	3-359-420-01	GEAR (CAM GEAR)	
311	3-359-456-01	SPRING(TRIGGER SPRING), TORSION	
312	X-3359-405-1	LEVER (FR ARM) ASSY	
313	3-359-453-01	SPRING (FR ARM), TORSION	
314	3-359-419-01	GEAR (FR GEAR)	
315	3-359-421-01	CLUTCH (REEL DISK)	
316	3-359-418-01	PULLEY (FR PULLEY)	

AUDIO-A AUDIO-B

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- Abbreviations
  AUS: Australian Model
  IT: Italian Model

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	A-2006-609-A	AUDIO-A BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
		< JACK >			
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
		< CONNECTOR >			
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< IC >			
IC31	8-759-106-02	IC uPC4570G2			
		< JUMPER RESISTOR >			
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
		< TRANSISTOR >			
Q71	8-729-602-36	TRANSISTOR 2SA1602			
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV11	1-241-627-11	RES, ADJ, CARBON	1K		
RV21	1-241-627-11	RES, ADJ, CARBON	1K		
RV71	1-241-630-11	RES, ADJ, CARBON	10K		
RV72	1-241-630-11	RES, ADJ, CARBON	10K		
**********					
*	A-2006-610-A	AUDIO-B BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C14	1-136-273-91	FILM	75PF	5%	630V
C15	1-164-080-11	CERAMIC	390PF	10%	50V
C17	1-163-103-00	CERAMIC CHIP	27PF	5%	50V

Ref. No.	Part No.	Description			Remark
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C24	1-136-273-91	FILM	75PF	5%	630V
C25	1-164-080-11	CERAMIC	390PF	10%	50V
C27	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C33	1-124-234-00	ELECT	22uF	20%	16V
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C52	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C53	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C54	1-136-559-11	FILM	0.0047uF	5%	630V
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C57	1-164-346-11	CERAMIC CHIP	1uF		16V
C58	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
		< JACK >			
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ33	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
		< CONNECTOR >			
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D31	8-719-404-46	DIODE MA110			
		< IC >			
IC31	8-759-106-02	IC uPC4570G2			
		< JUMPER RESISTOR >			
JW1	1-216-296-00	METAL CHIP	0	5%	1/8W
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W
JW3	1-216-295-00	METAL CHIP	0	5%	1/10W
JW4	1-216-295-00	METAL CHIP	0	5%	1/10W
JW6	1-216-295-00	METAL CHIP	0	5%	1/10W
JW7	1-216-295-00	METAL CHIP	0	5%	1/10W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
JW55	1-216-296-00	METAL CHIP	0	5%	1/8W
JW56	1-216-296-00	METAL CHIP	0	5%	1/8W
JW57	1-216-296-00	METAL CHIP	0	5%	1/8W
JW58	1-216-296-00	METAL CHIP	0	5%	1/8W
JW59	1-216-296-00	METAL CHIP	0	5%	1/8W
JW60	1-216-296-00	METAL CHIP	0	5%	1/8W
JW61	1-216-296-00	METAL CHIP	0	5%	1/8W
		< COIL >			
L11	1-410-780-11	INDUCTOR 27mH			
L21	1-410-780-11	INDUCTOR 27mH			
		< TRANSISTOR >			
Q51	8-729-808-01	TRANSISTOR 2SD1622-S			
Q52	8-729-808-01	TRANSISTOR 2SD1622-S			
Q53	8-729-808-01	TRANSISTOR 2SD1622-S			
Q71	8-729-602-36	TRANSISTOR 2SA1602			
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R15	1-249-430-11	CARBON	12K	5%	1/4W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R25	1-249-430-11	CARBON	12K	5%	1/4W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R41	1-249-393-11	CARBON	10	5%	1/4W F
R42	1-249-393-11	CARBON	10	5%	1/4W F
R51	1-216-075-00	METAL CHIP	12K	5%	1/10W
R52	1-216-075-00	METAL CHIP	12K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R56	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV11	1-241-627-11	RES, ADJ, CARBON	1K		
RV12	1-238-551-11	RES, ADJ, CARBON	220K		
RV21	1-241-627-11	RES, ADJ, CARBON	1K		
RV22	1-238-551-11	RES, ADJ, CARBON	220K		
RV71	1-241-630-11	RES, ADJ, CARBON	10K		
RV72	1-241-630-11	RES, ADJ, CARBON	10K		

AUDIO-B BD

Ref.No.	Part No.	Description			Remark
		< RELAY >			
RY31	1-515-913-11	RELAY			
		< TRANSFORMER >			
T51	1-406-419-11	COIL, BIAS OSCILLATION			
**********					
*	A-4617-371-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C102	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C103	1-126-163-11	ELECT	4.7uF	20%	50V
C104	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C105	1-126-154-11	ELECT	47uF	20%	6.3V
C106	1-126-154-11	ELECT	47uF	20%	6.3V
C107	1-126-154-11	ELECT	47uF	20%	6.3V
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-131-367-00	TANTALUM	22uF	10%	20V
C112	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C113	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C114	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C115	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C117	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C118	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C119	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C120	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C151	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C152	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C153	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C154	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C155	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C171	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C172	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C173	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C174	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
		< IC >			
IC101	8-752-058-77	IC CXA1372AQ			
IC102	8-759-822-36	IC LA6532M			

Ref.No.	Part No.	Description			Remark
		< JACK >			
J101	1-216-295-00	METAL CHIP	0	5%	1/10W
J102	1-216-295-00	METAL CHIP	0	5%	1/10W
		< MOTOR >			
M101	X-4917-504-1	MOTOR ASSY (SLED)			
		< TRANSISTOR >			
Q101	8-729-901-01	TRANSISTOR DTC144EK			
		< RESISTOR >			
R101	1-216-097-00	METAL CHIP	100K	5%	1/10W
R102	1-216-095-00	METAL CHIP	82K	5%	1/10W
R103	1-216-091-00	METAL CHIP	56K	5%	1/10W
R104	1-216-099-00	METAL CHIP	120K	5%	1/10W
R105	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R106	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R107	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R108	1-216-105-00	METAL CHIP	220K	5%	1/10W
R109	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R110	1-216-049-00	METAL CHIP	1K	5%	1/10W
R111	1-216-049-00	METAL CHIP	1K	5%	1/10W
R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
R113	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R114	1-216-105-00	METAL CHIP	220K	5%	1/10W
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
R153	1-216-085-00	METAL CHIP	33K	5%	1/10W
R154	1-216-085-00	METAL CHIP	33K	5%	1/10W
R155	1-216-093-00	METAL CHIP	68K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-079-00	METAL CHIP	18K	5%	1/10W
R158	1-216-079-00	METAL CHIP	18K	5%	1/10W
R159	1-216-079-00	METAL CHIP	18K	5%	1/10W
R160	1-216-049-00	METAL CHIP	1K	5%	1/10W
R171	1-216-001-00	METAL CHIP	10	5%	1/10W
R172	1-216-001-00	METAL CHIP	10	5%	1/10W
R173	1-216-001-00	METAL CHIP	10	5%	1/10W
R174	1-216-001-00	METAL CHIP	10	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-238-600-11	RES, ADJ, CARBON 10K			
RV101	1-241-630-11	RES, ADJ, CARBON 10K			
RV102	1-238-600-11	RES, ADJ, CARBON 10K			
RV102	1-241-630-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-638-730-11	LOADING MOTOR BOARD			
		**********			
		< CAPACITOR >			
C705	1-161-375-00	CERAMIC	0.0022uF	20%	50V
		< CONNECTOR >			
CN705	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P			
		< MOTOR >			
M702	A-4604-834-A	MOTOR ASSY, LOADING			
**********					
*	A-4356-887-A	MAIN BOARD, COMPLETE (EXCEPT D259:Canadian)			
		**********			
*	A-4360-507-A	MAIN BOARD, COMPLETE (D259:Canadian)			
		**********			
*	3-309-144-21	HEAT SINK			
*	4-880-403-11	HEAT SINK			
*	4-949-935-31	CUSHION (FL)			
*	4-955-792-11	HOLDER (5M), FL TUBE			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C501	1-124-477-11	ELECT	47uF	20%	25V
C502	1-164-159-11	CERAMIC	0.1uF		50V
C503	1-164-159-11	CERAMIC	0.1uF		50V
C504	1-164-159-11	CERAMIC	0.1uF		50V
C511	1-136-161-00	FILM	0.047uF	5%	50V
C512	1-161-374-11	CERAMIC	0.0015uF	20%	50V
C513	1-161-494-00	CERAMIC	0.022uF		25V
C514	1-162-306-11	CERAMIC	0.01uF	20%	16V
C515	1-124-902-00	ELECT	0.47uF	20%	50V
C516	1-161-494-00	CERAMIC	0.022uF		25V
C531	1-124-635-00	ELECT	220uF	20%	6.3V
C537	1-126-177-11	ELECT	100uF	20%	10V
C539	1-164-159-11	CERAMIC	0.1uF		50V
C542	1-124-635-00	ELECT	220uF	20%	6.3V
C543	1-164-159-11	CERAMIC	0.1uF		50V
C549	1-164-159-11	CERAMIC	0.1uF		50V
C550	1-124-635-00	ELECT	220uF	20%	6.3V
C551	1-164-159-11	CERAMIC	0.1uF		50V
C553	1-162-195-31	CERAMIC	4.7PF	10%	50V
C554	1-162-195-31	CERAMIC	4.7PF	10%	50V
C557	1-126-177-11	ELECT	100uF	20%	10V
C558	1-164-159-11	CERAMIC	0.1uF		50V
C601	1-124-472-11	ELECT	470uF	20%	10V
C602	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C603	1-124-478-11	ELECT	100uF	20%	25V
C604	1-124-478-11	ELECT	100uF	20%	25V
C608	1-164-159-11	CERAMIC	0.1uF		50V
C609	1-164-159-11	CERAMIC	0.1uF		50V
C614	1-164-159-11	CERAMIC	0.1uF		50V
C622	1-161-494-00	CERAMIC	0.022uF		25V
C626	1-162-294-31	CERAMIC	0.001uF	10%	50V
C627	1-162-294-31	CERAMIC	0.001uF	10%	50V
C628	1-162-294-31	CERAMIC	0.001uF	10%	50V
C630	1-162-294-31	CERAMIC	0.001uF	10%	50V
C631	1-162-294-31	CERAMIC	0.001uF	10%	50V
C632	1-162-294-31	CERAMIC	0.001uF	10%	50V
C661	1-162-283-31	CERAMIC	120PF	10%	50V
C663	1-162-282-31	CERAMIC	100PF	10%	50V
C664	1-162-282-31	CERAMIC	100PF	10%	50V
C665	1-162-282-31	CERAMIC	100PF	10%	50V
C666	1-162-282-31	CERAMIC	100PF	10%	50V
C667	1-162-283-31	CERAMIC	120PF	10%	50V
C668	1-124-907-11	ELECT	10uF	20%	50V
C669	1-124-907-11	ELECT	10uF	20%	50V
C671	1-130-480-00	MYLAR	0.0056uF	5%	50V
C672	1-130-480-00	MYLAR	0.0056uF	5%	50V
C673	1-130-471-00	MYLAR	0.001uF	5%	50V
C674	1-130-471-00	MYLAR	0.001uF	5%	50V
C675	1-126-176-11	ELECT	220uF	20%	10V
C676	1-126-176-11	ELECT	220uF	20%	10V
C677	1-124-477-11	ELECT	47uF	20%	25V
C678	1-124-477-11	ELECT	47uF	20%	25V
C679	1-164-159-11	CERAMIC	0.1uF		50V
C680	1-164-159-11	CERAMIC	0.1uF		50V
C681	1-164-159-11	CERAMIC	0.1uF		50V
C688	1-161-494-00	CERAMIC	0.022uF		25V
C690	1-161-494-00	CERAMIC	0.022uF		25V
C800	1-124-563-11	ELECT	2200uF	20%	25V
C801	1-126-176-11	ELECT	220uF	20%	10V
C802	1-124-572-11	ELECT	100uF	20%	63V
C803	1-124-907-11	ELECT	10uF	20%	50V
C804	1-128-548-81	ELECT	4700uF	20%	25V
C805	1-128-548-81	ELECT	4700uF	20%	25V
C806	1-164-159-11	CERAMIC	0.1uF		50V
C807	1-124-907-11	ELECT	10uF	20%	50V
C808	1-124-472-11	ELECT	470uF	20%	10V
C809	1-124-472-11	ELECT	470uF	20%	10V
C811	1-124-443-00	ELECT	100uF	20%	10V
C813	1-164-159-11	CERAMIC	0.1uF		50V
C815	1-124-927-11	ELECT	4.7uF	20%	100V
C816	1-124-907-11	ELECT	10uF	20%	50V
C817	1-124-443-00	ELECT	100uF	20%	10V
C822	1-164-159-11	CERAMIC	0.1uF		50V

MAIN

Ref. No.	Part No.	Description			Remark
C823	1-164-159-11	CERAMIC	0.1uF		50V
C833	1-124-916-11	ELECT	22uF	20%	63V
C888	1-124-907-11	ELECT	10uF	20%	50V
C901	1-162-286-31	CERAMIC	220PF	10%	50V
C902	1-162-286-31	CERAMIC	220PF	10%	50V
C903	1-130-467-00	MYLAR	470PF	5%	50V
C904	1-130-467-00	MYLAR	470PF	5%	50V
C911	1-162-294-31	CERAMIC	0.001uF	10%	50V
C912	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN601	1-691-902-21	CONNECTOR, FFC/FPC 37P			
* CN603	1-568-824-11	SOCKET, CONNECTOR 5P			
* CN604	1-568-943-11	PIN, CONNECTOR 5P			
CN605	1-691-895-21	CONNECTOR, FFC/FPC 18P			
* CN652	1-564-524-11	PLUG, CONNECTOR 9P			
* CN653	1-564-523-11	PLUG, CONNECTOR 8P			
* CN655	1-565-291-11	SOCKET, CONNECTOR 13P			
		< DIODE >			
D601	8-719-987-63	DIODE 1N4148M			
D802	8-719-933-50	DIODE HZS7C2L			
D808	8-719-000-75	DIODE UZL-7L1			
D810	8-719-010-12	DIODE UZ-2.7BS			
D811	8-719-000-75	DIODE UZL-7L1			
D841	8-719-500-36	DIODE D2SB20			
		< FERRITE BEAD >			
FB601	1-412-473-21	INDUCTOR 0UH			
FB602	1-412-473-21	INDUCTOR 0UH			
FB603	1-412-473-21	INDUCTOR 0UH			
FB604	1-412-473-21	INDUCTOR 0UH			
FB605	1-412-473-21	INDUCTOR 0UH			
FB606	1-412-473-21	INDUCTOR 0UH			
FB607	1-412-473-21	INDUCTOR 0UH			
FB901	1-412-473-21	INDUCTOR 0UH			
		< IC >			
IC501	8-752-838-85	IC CXP50120-024Q			
IC502	8-752-352-93	IC CXD2500BQ			
IC503	8-759-821-32	IC CXA1291P			
IC504	8-752-355-45	IC CXD2565M			
IC505	8-759-634-51	IC M5218AP			
IC506	8-759-634-51	IC M5218AP			
IC507	8-759-000-49	IC MC14066BCP			
IC801	8-759-071-48	IC TA7807S			
IC802	8-759-633-42	IC M5293L			
IC803	8-759-630-21	IC M5290P-16			

Ref. No.	Part No.	Description			Remark
		< COIL >			
L501	1-408-417-00	INDUCTOR 47uH			
		< IC LINK >			
⚠PS601	1-532-637-00	LINK, IC 1.0A (D259:AEP, UK, E, IT, AUS, D359)			
⚠PS602	1-532-685-00	LINK, IC (D259:AEP, UK, E, IT, AUS, D359)			
		< TRANSISTOR >			
Q541	8-729-900-61	TRANSISTOR DTA114ES			
Q542	8-729-900-61	TRANSISTOR DTA114ES			
Q543	8-729-900-61	TRANSISTOR DTA114ES			
Q601	8-729-900-89	TRANSISTOR DTC144ES			
Q673	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q674	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q675	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q676	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q677	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q678	8-729-900-89	TRANSISTOR DTC144ES			
Q679	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q802	8-729-140-96	TRANSISTOR 2SD774-34			
Q803	8-729-141-83	TRANSISTOR 2SB1094-LK			
Q809	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R501	1-249-420-11	CARBON	1.8K	5%	1/4W F
R502	1-249-417-11	CARBON	1K	5%	1/4W F
R503	1-249-417-11	CARBON	1K	5%	1/4W F
R504	1-249-417-11	CARBON	1K	5%	1/4W F
R511	1-249-423-11	CARBON	3.3K	5%	1/4W F
R512	1-249-429-11	CARBON	10K	5%	1/4W
R513	1-249-423-11	CARBON	3.3K	5%	1/4W F
R514	1-249-429-11	CARBON	10K	5%	1/4W
R515	1-249-417-11	CARBON	1K	5%	1/4W F
R516	1-249-417-11	CARBON	1K	5%	1/4W F
R517	1-249-420-11	CARBON	1.8K	5%	1/4W F
R518	1-249-441-11	CARBON	100K	5%	1/4W
R531	1-249-417-11	CARBON	1K	5%	1/4W F
R539	1-249-425-11	CARBON	4.7K	5%	1/4W F
R541	1-249-405-11	CARBON	100	5%	1/4W F
R543	1-249-441-11	CARBON	100K	5%	1/4W
R544	1-249-441-11	CARBON	100K	5%	1/4W
R547	1-249-441-11	CARBON	100K	5%	1/4W
R601	1-249-433-11	CARBON	22K	5%	1/4W
R602	1-249-433-11	CARBON	22K	5%	1/4W
R603	1-249-433-11	CARBON	22K	5%	1/4W
R604	1-249-425-11	CARBON	4.7K	5%	1/4W F
R605	1-249-425-11	CARBON	4.7K	5%	1/4W F

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
R606	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R608	1-249-441-11	CARBON	100K	5%	1/4W	
R609	1-249-440-11	CARBON	82K	5%	1/4W	
R610	1-247-874-11	CARBON	62K	5%	1/4W	
R611	1-249-435-11	CARBON	33K	5%	1/4W	
R612	1-247-878-00	CARBON	91K	5%	1/4W	
R613	1-247-864-11	CARBON	24K	5%	1/4W	
R614	1-247-880-11	CARBON	110K	5%	1/4W	
R615	1-249-440-11	CARBON	82K	5%	1/4W	
R616	1-247-876-11	CARBON	75K	5%	1/4W	
R621	1-249-393-11	CARBON	10	5%	1/4W	F
R622	1-249-393-11	CARBON	10	5%	1/4W	F
R625	1-249-429-11	CARBON	10K	5%	1/4W	
R626	1-249-429-11	CARBON	10K	5%	1/4W	
R627	1-249-429-11	CARBON	10K	5%	1/4W	
R628	1-249-429-11	CARBON	10K	5%	1/4W	
R629	1-249-429-11	CARBON	10K	5%	1/4W	
R630	1-249-429-11	CARBON	10K	5%	1/4W	
R631	1-249-429-11	CARBON	10K	5%	1/4W	
R632	1-249-429-11	CARBON	10K	5%	1/4W	
R645	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R646	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R652	1-249-433-11	CARBON	22K	5%	1/4W	
R653	1-249-433-11	CARBON	22K	5%	1/4W	
R655	1-249-433-11	CARBON	22K	5%	1/4W	
R656	1-249-433-11	CARBON	22K	5%	1/4W	
R661	1-247-862-11	CARBON	20K	5%	1/4W	
R662	1-247-862-11	CARBON	20K	5%	1/4W	
R663	1-247-862-11	CARBON	20K	5%	1/4W	
R664	1-247-862-11	CARBON	20K	5%	1/4W	
R665	1-249-433-11	CARBON	22K	5%	1/4W	
R666	1-249-433-11	CARBON	22K	5%	1/4W	
R667	1-249-433-11	CARBON	22K	5%	1/4W	
R668	1-249-433-11	CARBON	22K	5%	1/4W	
R669	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R670	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R671	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R672	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R675	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R676	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R677	1-249-441-11	CARBON	100K	5%	1/4W	
R678	1-249-441-11	CARBON	100K	5%	1/4W	
R681	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R682	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R683	1-249-409-11	CARBON	220	5%	1/4W	F
R684	1-249-409-11	CARBON	220	5%	1/4W	F
R690	1-249-429-11	CARBON	10K	5%	1/4W	
R691	1-249-417-11	CARBON	1K	5%	1/4W	F
R692	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R693	1-249-433-11	CARBON	22K	5%	1/4W	
R694	1-249-393-11	CARBON	10	5%	1/4W	F
R695	1-249-433-11	CARBON	22K	5%	1/4W	
R696	1-249-433-11	CARBON	22K	5%	1/4W	
R697	1-249-433-11	CARBON	22K	5%	1/4W	
R801	1-249-435-11	CARBON	33K	5%	1/4W	
R813	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R814	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R815	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R819	1-249-410-11	CARBON	270	5%	1/4W	F
R820	1-249-438-11	CARBON	56K	5%	1/4W	
R821	1-249-429-11	CARBON	10K	5%	1/4W	
R826	1-249-417-11	CARBON	1K	5%	1/4W	F
R827	1-249-410-11	CARBON	270	5%	1/4W	F
R852	1-249-429-11	CARBON	10K	5%	1/4W	

< VIBRATOR >

X501 1-579-833-21 VIBRATOR, CRYSTAL 33MHz

****

* 1-638-731-11 OPEN/UP SW BOARD

****

< SWITCH >

S702 1-571-300-21 SWITCH, ROTARY (UP/OPEN)

****

* 1-646-432-21 PANEL-B BOARD

****

< CONNECTOR >

* CN750 1-691-902-21 CONNECTOR, FFC/FPC 37P

< FILTER >

FL701 1-519-721-31 INDICATOR TUBE, FLUORESCENT

< RESISTOR >

R751	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R752	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R753	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R754	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R763	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R764	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R765	1-249-427-11	CARBON	6.8K	5%	1/4W	F

< SWITCH >

S750 1-554-303-21 SWITCH, TACTILE (EDIT/TIME FADE)
S751 1-554-303-21 SWITCH, TACTILE (CHECK)
S752 1-554-303-21 SWITCH, TACTILE (CLEAR)

PANEL-B **PANEL-U** **SW** **TC PANEL (A)** **TC PANEL (B)**

Ref. No.	Part No.	Description	Remark
S753	1-554-303-21	SWITCH, TACTILE (FADER)	
S754	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
S755	1-554-303-21	SWITCH, TACTILE (REPEAT)	
S765	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
S766	1-554-303-21	SWITCH, TACTILE (SHUTTLE)	
S767	1-554-303-21	SWITCH, TACTILE (CONTINUE)	
S780	1-554-303-21	SWITCH, TACTILE (TIME)	
**********			
*	1-646-431-21	PANEL-U BOARD	
		**********	
		< CONNECTOR >	
CN752	1-506-469-11	PIN, CONNECTOR 4P	
		< RESISTOR >	
R755	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R756	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R757	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R758	1-249-432-11	CARBON 18K 5% 1/4W	
R759	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R760	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R761	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R762	1-249-432-11	CARBON 18K 5% 1/4W	
R766	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R767	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R768	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R769	1-249-432-11	CARBON 18K 5% 1/4W	
		< SWITCH >	
S756	1-554-303-21	SWITCH, TACTILE (⏮)	
S757	1-554-303-21	SWITCH, TACTILE (⏭)	
S758	1-554-303-21	SWITCH, TACTILE (⏪)	
S759	1-554-303-21	SWITCH, TACTILE (⏩)	
S760	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE)	
S761	1-554-303-21	SWITCH, TACTILE (▷)	
S762	1-554-303-21	SWITCH, TACTILE (⏸)	
S763	1-554-303-21	SWITCH, TACTILE (■)	
S764	1-554-303-21	SWITCH, TACTILE (DISK SKIP)	
S768	1-554-303-21	SWITCH, TACTILE (DISK 5)	
S769	1-554-303-21	SWITCH, TACTILE (DISK 4)	
S770	1-554-303-21	SWITCH, TACTILE (DISK 3)	
S771	1-554-303-21	SWITCH, TACTILE (DISK 2)	
S772	1-554-303-21	SWITCH, TACTILE (DISK 1)	
**********			

Ref. No.	Part No.	Description	Remark
*	A-4357-003-A	SW BOARD, COMPLETE (D259)	
		**********	
*	A-4357-196-A	SW BOARD, COMPLETE (D359)	
		**********	
	1-646-887-21	TC PANEL (A) BOARD	
		**********	
		< DIODE >	
D481	8-719-301-42	DIODE SEL2410E	
D482	8-719-301-49	LED SEL2810A	
D483	8-719-301-49	LED SEL2810A	
		< SWITCH >	
S401	1-554-303-21	SWITCH, TACTILE (■)	
S402	1-554-303-21	SWITCH, TACTILE (PLAY:▷)	
S403	1-554-303-21	SWITCH, TACTILE (PLAY:◁)	
S404	1-554-303-21	SWITCH, TACTILE (AMS:⏩)	
S405	1-554-303-21	SWITCH, TACTILE (AMS:⏪)	
S406	1-572-269-11	SWITCH, SLIDE (DOLBY NR)	
S407	1-572-268-11	SWITCH, SLIDE (DIRECTION MODE)	
	1-646-888-21	TC PANEL (B) BOARD	
		**********	
		< CONNECTOR >	
CN451	1-568-442-11	SOCKET, CONNECTOR 9P	
CN452	1-568-443-11	SOCKET, CONNECTOR 13P	
		< DIODE >	
D491	8-719-301-37	LED SEL2210S-CD	
D492	8-719-301-49	LED SEL2810A	
D493	8-719-301-42	DIODE SEL2410E	
D494	8-719-301-49	LED SEL2810A	
D495	8-719-301-49	LED SEL2810A	
D496	8-719-301-37	LED SEL2210S-CD (D359)	
D497	8-719-301-37	LED SEL2210S-CD	
D498	8-719-301-37	LED SEL2210S-CD	
		< RESISTOR >	
R481	1-249-407-11	CARBON 150 5% 1/4W F	
R482	1-249-409-11	CARBON 220 5% 1/4W F	
R483	1-249-415-11	CARBON 680 5% 1/4W F	
R484	1-249-417-11	CARBON 1K 5% 1/4W F	
R485	1-249-426-11	CARBON 5.6K 5% 1/4W	
R486	1-249-430-11	CARBON 12K 5% 1/4W	
R490	1-249-407-11	CARBON 150 5% 1/4W F	
R491	1-249-409-11	CARBON 220 5% 1/4W F	
R492	1-249-411-11	CARBON 330 5% 1/4W	
R493	1-249-413-11	CARBON 470 5% 1/4W F	

TC PANEL (B) | LEAF SW-A (DECK A) | LEAF SW-B (DECK B) | TABLE MOTOR | TC MAIN

Ref. No.	Part No.	Description				Remark
R494	1-249-411-11	CARBON	330	5%	1/4W	
R495	1-249-413-11	CARBON	470	5%	1/4W	F
R496	1-249-415-11	CARBON	680	5%	1/4W	F
R497	1-249-417-11	CARBON	1K	5%	1/4W	F
R498	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R499	1-249-424-11	CARBON	3.9K	5%	1/4W	F
		< SWITCH >				
S451	1-554-303-21	SWITCH, TACTILE (■)				
S452	1-554-303-21	SWITCH, TACTILE (❚❚ PAUSE)				
S453	1-554-303-21	SWITCH, TACTILE (PLAY:◁)				
S454	1-554-303-21	SWITCH, TACTILE (PLAY:▷)				
S455	1-554-303-21	SWITCH, TACTILE (● REC MUTE)				
S456	1-554-303-21	SWITCH, TACTILE (AMS:▶▶)				
S457	1-554-303-21	SWITCH, TACTILE (AMS:◀◀)				
S458	1-554-303-21	SWITCH, TACTILE (●:REC)				
S459	1-554-303-21	SWITCH, TACTILE (DUBBING SPEED:HIGH)				
S460	1-554-303-21	SWITCH, TACTILE (DUBBING SPEED:NORMAL)				
S461	1-554-303-21	SWITCH, TACTILE (CD SYNCHRO) (D359)				
**********						
*	1-634-841-14	LEAF SW-A BOARD (DECK A)				
		**********				
	3-343-419-01	HOLDER (S SENSOR A)				
		< CONNECTOR >				
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P				
		< IC >				
IC81	8-719-710-03	DIODE NJL5165K-B				
		< RESISTOR >				
R84	1-249-417-11	CARBON	1K	5%	1/4W	F
R85	1-249-408-11	CARBON	180	5%	1/4W	F
		< SWITCH >				
S81	1-571-958-11	SWITCH, PUSH (1 KEY)				
S82	1-571-281-21	SWITCH, LEAF				
S86	1-571-281-21	SWITCH, LEAF				
**********						
*	1-634-841-14	LEAF SW-B BOARD (DECK B)				
		**********				
	3-343-419-01	HOLDER (S SENSOR A)				
		< CONNECTOR >				
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P				

Ref. No.	Part No.	Description				Remark
		< IC >				
IC81	8-719-710-03	DIODE NJL5165K-B				
		< RESISTOR >				
R81	1-249-414-11	CARBON	560	5%	1/4W	F
R82	1-247-818-11	CARBON	300	5%	1/4W	
R83	1-247-834-11	CARBON	1.3K	5%	1/4W	
R84	1-249-417-11	CARBON	1K	5%	1/4W	F
R85	1-249-408-11	CARBON	180	5%	1/4W	F
		< SWITCH >				
S81	1-571-958-11	SWITCH, PUSH (1 KEY)				
S82	1-571-281-21	SWITCH, LEAF				
S84	1-571-281-21	SWITCH, LEAF				
S85	1-571-281-21	SWITCH, LEAF				
S86	1-571-281-21	SWITCH, LEAF				
**********						
*	1-638-729-11	TABLE MOTOR BOARD				
		**********				
		< CAPACITOR >				
C704	1-161-375-00	CERAMIC	0.0022uF	20%	50V	
		< CONNECTOR >				
* CN707	1-573-044-11	SOCKET, CONNECTOR 5P				
		< DIODE >				
D701	8-719-970-19	DIODE GP-1A521				
		< MOTOR >				
M701	A-4604-585-A	MOTOR ASSY, ROTARY				
		< RESISTOR >				
R701	1-249-416-11	CARBON	820	5%	1/4W	F
**********						
*	A-4356-892-A	TC MAIN BOARD, COMPLETE				
		**********				
*	4-870-539-00	PLATE, GROUND				
	8-729-900-65	TRANSISTOR DTA144ES				
	8-729-900-61	TRANSISTOR DTA114ES				
		< CAPACITOR >				
C122	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C123	1-162-291-31	CERAMIC	560PF	10%	50V	
C126	1-136-165-00	FILM	0.1uF	5%	50V	
C127	1-126-791-11	ELECT	10uF	20%	35V	

TC MAIN

Ref. No.	Part No.	Description			Remark
C128	1-126-301-11	ELECT	1uF	20%	50V
C129	1-124-465-00	ELECT	0.47uF	20%	50V
C130	1-126-791-11	ELECT	10uF	20%	35V
C131	1-164-159-11	CERAMIC	0.1uF		50V
C132	1-126-791-11	ELECT	10uF	20%	35V
C141	1-126-301-11	ELECT	1uF	20%	50V
C142	1-126-791-11	ELECT	10uF	20%	35V
C143	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C222	1-130-479-00	MYLAR	0.0047uF	5%	50V
C223	1-162-291-31	CERAMIC	560PF	10%	50V
C226	1-136-165-00	FILM	0.1uF	5%	50V
C227	1-126-791-11	ELECT	10uF	20%	35V
C228	1-126-301-11	ELECT	1uF	20%	50V
C229	1-124-465-00	ELECT	0.47uF	20%	50V
C230	1-126-791-11	ELECT	10uF	20%	35V
C231	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C232	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C233	1-124-465-00	ELECT	0.47uF	20%	50V
C241	1-126-301-11	ELECT	1uF	20%	50V
C242	1-126-791-11	ELECT	10uF	20%	35V
C243	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C301	1-126-791-11	ELECT	10uF	20%	35V
C302	1-126-926-11	ELECT	1000uF	20%	10V
C303	1-123-382-00	ELECT	3.3uF	20%	100V
C304	1-164-159-11	CERAMIC	0.1uF		50V
C305	1-164-159-11	CERAMIC	0.1uF		50V
C306	1-126-933-11	ELECT	100uF	20%	16V
C307	1-126-933-11	ELECT	100uF	20%	16V
C308	1-126-926-11	ELECT	1000uF	20%	10V
C309	1-126-926-11	ELECT	1000uF	20%	10V
C310	1-126-791-11	ELECT	10uF	20%	35V
C311	1-126-791-11	ELECT	10uF	20%	35V
C312	1-126-949-11	ELECT	220uF	20%	35V
C314	1-124-584-00	ELECT	100uF	20%	10V
C315	1-126-926-11	ELECT	1000uF	20%	10V
C316	1-126-933-11	ELECT	100uF	20%	16V
C317	1-126-933-11	ELECT	100uF	20%	16V
C318	1-126-933-11	ELECT	100uF	20%	16V
C456	1-162-290-31	CERAMIC	470PF	10%	50V
C457	1-162-290-31	CERAMIC	470PF	10%	50V
C458	1-164-159-11	CERAMIC	0.1uF		50V
C459	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

* CN101	1-564-523-11	PLUG, CONNECTOR 8P	
* CN301	1-564-519-11	PLUG, CONNECTOR 4P	
* CN302	1-564-506-11	PLUG, CONNECTOR 3P	
* CN303	1-564-506-11	PLUG, CONNECTOR 3P	
* CN401	1-564-517-11	PLUG, CONNECTOR 2P	
CN402	1-580-783-11	CONNECTOR, BOARD TO BOARD	
CN403	1-580-783-11	CONNECTOR, BOARD TO BOARD	
CN404	1-580-783-11	CONNECTOR, BOARD TO BOARD	
CN405	1-568-437-11	SOCKET, CONNECTOR 7P	
CN406	1-568-437-11	SOCKET, CONNECTOR 7P	
CN407	1-568-441-11	SOCKET, CONNECTOR 9P	
CN408	1-568-444-11	SOCKET, CONNECTOR 13P	

< DIODE >

D301	8-719-000-78	DIODE UZL-7L2	
D302	8-719-987-63	DIODE 1N4148M	
D303	8-719-987-63	DIODE 1N4148M	
D304	8-719-987-63	DIODE 1N4148M	
D305	8-719-200-82	DIODE 11ES2	
D306	8-719-200-82	DIODE 11ES2	
D401	8-719-987-63	DIODE 1N4148M	
D402	8-719-987-63	DIODE 1N4148M	
D403	8-719-987-63	DIODE 1N4148M	

< IC >

IC101	8-759-098-75	IC HA12171NT	
IC301	8-759-071-48	IC TA7807S	
IC401	8-759-076-36	IC M50964-256FP	
IC402	8-759-635-63	IC M51943BSL	
IC403	8-759-207-05	IC TA7272P	

< TRANSISTOR >

Q101	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q201	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q301	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q400	8-729-900-61	TRANSISTOR DTA114ES	
Q401	8-729-900-61	TRANSISTOR DTA114ES	
Q402	8-729-900-61	TRANSISTOR DTA114ES	
Q403	8-729-900-61	TRANSISTOR DTA114ES	
Q404	8-729-900-61	TRANSISTOR DTA114ES	
Q405	8-729-900-61	TRANSISTOR DTA114ES	
Q406	8-729-900-89	TRANSISTOR DTC144ES	
Q407	8-729-900-89	TRANSISTOR DTC144ES	
Q408	8-729-900-61	TRANSISTOR DTA114ES	
Q409	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q410	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q411	8-729-801-84	TRANSISTOR 2SB1013-4	
Q412	8-729-801-84	TRANSISTOR 2SB1013-4	
Q413	8-729-900-61	TRANSISTOR DTA114ES	
Q414	8-729-900-89	TRANSISTOR DTC144ES	

< RESISTOR >

R120	1-215-451-00	METAL	18K	1%	1/6W
R121	1-249-430-11	CARBON	12K	5%	1/4W

Ref. No.	Part No.	Description				Remark
R122	1-249-431-11	CARBON	15K	5%	1/4W	
R123	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R124	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R125	1-249-429-11	CARBON	10K	5%	1/4W	
R127	1-249-429-11	CARBON	10K	5%	1/4W	
R130	1-249-429-11	CARBON	10K	5%	1/4W	
R131	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R132	1-249-429-11	CARBON	10K	5%	1/4W	
R133	1-249-429-11	CARBON	10K	5%	1/4W	
R135	1-247-864-11	CARBON	24K	5%	1/4W	
R136	1-249-429-11	CARBON	10K	5%	1/4W	
R137	1-249-429-11	CARBON	10K	5%	1/4W	
R138	1-249-429-11	CARBON	10K	5%	1/4W	
R141	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R142	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R143	1-247-840-00	CARBON	2.4K	5%	1/4W	
R144	1-249-433-11	CARBON	22K	5%	1/4W	
R145	1-249-417-11	CARBON	1K	5%	1/4W	F
R221	1-249-430-11	CARBON	12K	5%	1/4W	
R222	1-249-431-11	CARBON	15K	5%	1/4W	
R223	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R224	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R225	1-247-882-11	CARBON	130K	5%	1/4W	
R226	1-247-866-11	CARBON	30K	5%	1/4W	
R229	1-249-429-11	CARBON	10K	5%	1/4W	
R230	1-249-432-11	CARBON	18K	5%	1/4W	
R231	1-247-885-00	CARBON	180K	5%	1/4W	
R241	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R242	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R243	1-247-840-00	CARBON	2.4K	5%	1/4W	
R244	1-249-433-11	CARBON	22K	5%	1/4W	
R245	1-249-417-11	CARBON	1K	5%	1/4W	F
R300	1-249-405-11	CARBON	100	5%	1/4W	F
R301	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R302	1-249-405-11	CARBON	100	5%	1/4W	F
R303	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R352	1-249-393-11	CARBON	10	5%	1/4W	F
R400	1-249-389-11	CARBON	4.7	5%	1/4W	F
R401	1-249-429-11	CARBON	10K	5%	1/4W	
R402	1-247-903-00	CARBON	1M	5%	1/4W	
R403	1-247-895-00	CARBON	470K	5%	1/4W	
R404	1-247-895-00	CARBON	470K	5%	1/4W	
R405	1-249-408-11	CARBON	180	5%	1/4W	F
R406	1-249-408-11	CARBON	180	5%	1/4W	F
R407	1-249-410-11	CARBON	270	5%	1/4W	F
R408	1-247-812-11	CARBON	160	5%	1/4W	
R409	1-247-812-11	CARBON	160	5%	1/4W	
R410	1-247-816-11	CARBON	240	5%	1/4W	
R411	1-247-812-11	CARBON	160	5%	1/4W	
R412	1-249-411-11	CARBON	330	5%	1/4W	
R413	1-249-429-11	CARBON	10K	5%	1/4W	
R414	1-249-429-11	CARBON	10K	5%	1/4W	
R415	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R416	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R417	1-249-437-11	CARBON	47K	5%	1/4W	
R418	1-249-429-11	CARBON	10K	5%	1/4W	
R420	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R422	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R423	1-249-429-11	CARBON	10K	5%	1/4W	
R425	1-249-417-11	CARBON	1K	5%	1/4W	F
R426	1-249-417-11	CARBON	1K	5%	1/4W	F
R427	1-249-417-11	CARBON	1K	5%	1/4W	F
R431	1-249-429-11	CARBON	10K	5%	1/4W	
R432	1-249-415-11	CARBON	680	5%	1/4W	F
R433	1-249-429-11	CARBON	10K	5%	1/4W	
R434	1-249-415-11	CARBON	680	5%	1/4W	F
R435	1-249-429-11	CARBON	10K	5%	1/4W	
R451	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R452	1-249-435-11	CARBON	33K	5%	1/4W	
R453	1-249-437-11	CARBON	47K	5%	1/4W	
R454	1-247-872-11	CARBON	51K	5%	1/4W	
R455	1-247-862-11	CARBON	20K	5%	1/4W	
R456	1-247-866-11	CARBON	30K	5%	1/4W	
R457	1-247-872-11	CARBON	51K	5%	1/4W	
R458	1-249-405-11	CARBON	100	5%	1/4W	F
R459	1-249-381-11	CARBON	1	5%	1/4W	F
R460	1-249-381-11	CARBON	1	5%	1/4W	F
R461	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R462	1-249-435-11	CARBON	33K	5%	1/4W	
R463	1-249-437-11	CARBON	47K	5%	1/4W	
R464	1-247-872-11	CARBON	51K	5%	1/4W	
R465	1-247-862-11	CARBON	20K	5%	1/4W	
R466	1-247-866-11	CARBON	30K	5%	1/4W	
R467	1-247-872-11	CARBON	51K	5%	1/4W	
R468	1-249-405-11	CARBON	100	5%	1/4W	F
R469	1-249-381-11	CARBON	1	5%	1/4W	F
R470	1-249-381-11	CARBON	1	5%	1/4W	F
R471	1-249-429-11	CARBON	10K	5%	1/4W	
R472	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R473	1-249-434-11	CARBON	27K	5%	1/4W	
R474	1-249-429-11	CARBON	10K	5%	1/4W	
R476	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R477	1-249-434-11	CARBON	27K	5%	1/4W	

< VARIABLE RESISTOR >

RV101	1-230-496-11	RES, ADJ, CARBON 10K
RV201	1-230-496-11	RES, ADJ, CARBON 10K

TC MAIN TRANSFORMER

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X401	1-577-358-21	VIBRATOR, CERAMIC	
**********			
*	1-646-433-21	TRANSFORMER BOARD	
		**********	
		< CONNECTOR >	
* CN701	1-564-512-11	PLUG, CONNECTOR 9P	
* CN702	1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D801	8-719-200-82	DIODE 11ES2	
D803	8-719-200-82	DIODE 11ES2	
D804	8-719-200-82	DIODE 11ES2	
		< TRANSFORMER >	
⚠T801	1-423-421-11	TRANSFORMER, POWER	
**********			
		MISCELLANEOUS	
		**********	
55	1-751-209-11	WIRE, FLAT TYPE (9 CORE) (D259)	
64	1-590-574-11	WIRE, FLAT TYPE (7 CORE)	
65	1-590-485-11	WIRE, FLAT TYPE (7 CORE)	
69	1-751-055-31	WIRE, FLAT TYPE (37 CORE) (D259)	
70	1-690-589-31	WIRE, FLAT TYPE (13 CORE) (D359)	
70	1-751-210-11	WIRE, FLAT TYPE (13 CORE) (D259)	
* 104	1-452-538-11	MAGNET	
114	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
154	1-537-476-11	JUMPER, FILM (WITH TERMINAL)	
⚠201	8-848-144-11	DEVICE, OPTICAL KSS-240A	
202	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
271	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
D701	8-719-970-19	DIODE GP-1A521	
HP901	A-2003-838-A	DECK ASSY, HEAD (DECK A)	
HRPE901	A-2004-190-A	DECK ASSY, HEAD (DECK B)	
IC302	8-759-604-95	IC M5F79M07	
M102	X-4917-523-3	BASE (OUTSERT) ASSY (SPINDLE MOTOR)	
M901	X-3359-417-1	MOTOR ASSY (CAPSTAN)	
M902	X-3363-501-1	MOTOR ASSY (REEL)	
Q302	8-729-209-15	TRANSISTOR 2SD2012	
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR)	
**********			

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
* 5	4-941-548-01	LABEL, CLASS 1 (D259:AEP, UK, E, IT, AUS, D359)	
7	4-937-945-01	PLATE (TRANSPORT), LOCK	
* 8	3-703-713-41	STICKER, SONY SYMBOL (10) (D359)	
**********			

****
HARDWARE LIST
****

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#3	7-682-554-04	SCREW +B 3X25
#4	7-682-661-09	SCREW +PSW 4X8
#5	7-685-136-19	SCREW +P 2.6X12 TYPE2 NON-SLIT
#6	7-621-255-15	SCREW +P 2X3
#7	7-621-775-00	SCREW +B 2.6X3
#8	7-627-556-08	SCREW +P 2.6X2.8
#9	7-682-548-04	SCREW +BVTT 3X8 (S)
#11	7-685-648-79	SCREW (M3X12), TAPPING

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

English
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